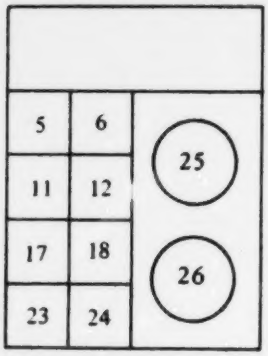
The patterns used to illustrate the cover of this publication are typical of the forms in which results are obtained from the instruments used in Water Quality Branch laboratories. The instruments which produced these patterns are only a few of the many instruments in regular use. The list below and the diagram can be used to identify the instruments which produced the patterns:

Auto Analyser: 2, 5, 10, 12, 19, 22
Calibration Curves, Auto Analyser: 23
Polarograph: 1, 6, 11, 21
Gas Chromatograph: 3, 8, 9, 13, 14, 16, 18, 20, 24
Infrared Spectrophotometer: 4, 17
Mass Spectrometer: 7, 15
Computer: 25, 26

Les dessins de la page couverture illustrent la forme sous laquelle on recueille les données obtenues par les appareils des laboratoires de la Direction de la qualité des eaux. Les appareils en question ne représentent qu'une partie de tous ceux qui sont couramment utilisés. La liste qui suit et le schéma peuvent servir à les identifier.

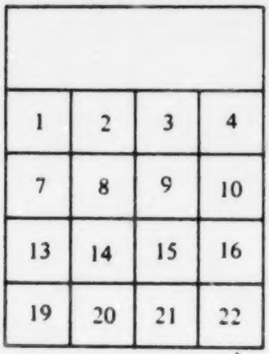
Auto-analyseur: 2, 5, 10, 12, 19, 22
Courbes d'étalonnage d'auto-analyseur: 23
Polarographe: 1, 6, 11, 21
Chromatographe en phase gazeuse: 3, 8, 9, 13, 14, 16, 18, 20, 24
Spectrophotomètre infrarouge: 4, 17
Spectromètre de masse: 7, 15
Ordinateur: 25, 26

FRONT COVER



COUVERTURE AVANT

BACK COVER



COUVERTURE ARRIÈRE

Environment Canada Environnement Canada

Detailed Surface Water Quality Data

Données détaillées sur la qualité des eaux de surface

84- 3116 /

Alberta

1980-1981

INLAND WATERS DIRECTORATE
WESTERN AND NORTHERN REGION
WATER QUALITY BRANCH
CALGARY, ALBERTA, 1984

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
RÉGION DE L'OUEST ET DU NORD
DIRECTION DE LA QUALITÉ DES EAUX
CALGARY, ALBERTA, 1984

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Abstract

Chemical, physical and biological surface water data for Alberta collected during 1980 and 1981 are detailed herein. These data are intended to provide a ready reference to the water quality variables measured.

Résumé

Le présent document renferme les données chimiques, physiques et biologiques recueillies en 1980 et 1981 sur les eaux de surface de l'Alberta. Ces données devraient permettre la consultation rapide des variables se rapportant à la qualité des eaux.

INTRODUCTION

The chemical, physical and biological data from selected surface waters in Alberta during 1980 and 1981 are presented in this report. These data were obtained from a number of Water Quality Branch programs. Because of changing program priorities and changes in the role of the Branch, the sampling locations, frequencies and parameters also changed during this period. Hence, the amount of available data varies from site to site and from year to year.

Data collection by the Branch may be done either as a special study or survey or as part of a long-term monitoring program. Special studies or surveys are usually of short duration with specific objectives such as determining the source, the pathways, or the distribution of a pollutant in the aquatic environment. Long-term monitoring may be defined as the systematic collection of samples at strategic locations to provide an overview of the water quality in the aquatic system. This baseline information supports work for assessing trends in the aquatic environment, establishing water quality objectives and assessing the impacts of development.

This report is the third of a series of detailed water quality data reports published since 1974. Earlier data collected in the province of Alberta were summarized in a publication entitled *Water Quality Data, Alberta, 1961-1973*. These latter publications are intended for those who desire greater access to the range of available water quality variables measured than can be obtained from the summary publication.

The data contained in this report are stored on the NAQUADAT computerized storage and retrieval system. While these data are edited prior to publication, they remain subject to post-publication revision.

The assistance of personnel from the Water Quality Branch, Hull/Ottawa, in preparing the data retrievals and the map for this report is gratefully acknowledged.

INTRODUCTION

Le présent rapport traite des données d'ordre chimique, physique et biologique relatives à des eaux de surface choisies de l'Alberta. Ces données ont été obtenues à partir d'un certain nombre de programmes de la Direction de la qualité des eaux, durant 1980 et 1981. À cause de changements de priorités dans les programmes et de modifications du rôle de la Direction, les emplacements, fréquences et paramètres d'échantillonnage ont eux aussi varié au cours de la même période. C'est pourquoi la quantité des données varie selon les emplacements et les années.

La Direction entreprend la cueillette des données en raison soit d'une étude ou d'une enquête spéciale, soit d'un programme de contrôle à long terme. Les études spéciales sont habituellement de courte durée et possèdent des objectifs précis, comme de déterminer la source, les parcours ou la distribution d'un polluant dans l'environnement aquatique. Quant à la surveillance à long terme, on peut la définir comme une collecte systématique d'échantillons à des emplacements choisis, permettant d'obtenir un aperçu global de la qualité des eaux dans le système aquatique. Ces données servent ensuite de base à l'évaluation des tendances dans l'environnement aquatique, à l'établissement d'objectifs en matière de qualité des eaux et à l'évaluation des effets de l'aménagement.

Le présent rapport se veut le troisième d'une série contenant des données détaillées sur la qualité des eaux qui date de 1974. Une publication précédente, *Données sur la qualité des eaux, Alberta, 1961-1973*, résumait les données recueillies dans la province de l'Alberta. Ces dernières s'adressent aux personnes qui désirent obtenir plus de renseignements que leur en fournissait la publication sommaire sur l'éventail des variables disponibles relativement à la qualité des eaux.

Les données, contenues dans ce rapport, sont emmagasinées dans la banque NAQUADAT, système de stockage et de recouvrement informatisés. Ces données ont été révisées avant d'être publiées, mais éventuellement, elles devront faire encore l'objet d'une révision ultérieure.

On remercie vivement le personnel de la Division de la qualité des eaux, à Hull et à Ottawa, pour leur aide dans l'extraction des données et la préparation de la carte.

GUIDE TO USE OF TABLES

Data in this report are arranged in order of the 12-digit code assigned to each station (NAQUADAT station number). This code incorporates the Water Survey of Canada basin and sub-basin designation. In the station number, the first two numerals refer to the water type (00 designates a stream, 01 a lake or reservoir) and they are followed by a two-letter provincial code (AL for Alberta). The next two numerals and two letters refer to the basin and sub-basin respectively, followed by a final four-digit sequence number. An alphabetical station index and a station location map are presented at the end of this report. For locations where a Station Parameter code (e.g. 97900S) is given, Water Survey of Canada discharge data are also available for that site. For those wishing to refer to specific discharge data for a site, the appropriate Water Survey Station Reference Number can be derived from the NAQUADAT station number by replacing its final four-digit sequence with the three digits following the station parameter code. Geographical co-ordinates of the sampling sites are also provided in the index.

CODING OF ANALYTICAL METHODS

The analytical method employed is defined by the six-digit code number shown at the top of each column of data. If the analytical method used for a particular datum was different from the one indicated in the column heading, then the last three digits of the appropriate method code appear as backup codes beside the actual result. The parameter code number is of the form ZZXYYA where:

(1) ZZ is a numeric code designating the type of test as shown in the table following:

Tests	Parameter Code
Chemical tests	ATXYYA (AT-Atomic number)
Balances and other calculated parameters	00XYYA
General physical tests	02XYYA
General chemical tests	10XYYA

GUIDE D'UTILISATION DES TABLEAUX

Les données sont disposées selon le code de 12 éléments assigné à chaque station (numéro de station NAQUADAT) et incluant la désignation de la Division des relevés hydrologiques du Canada relative aux bassins et aux sous-bassins. Les deux premiers chiffres se rapportent au type d'eau (00 désigne un cours d'eau, 01 un lac ou un réservoir) et sont suivis de deux lettres désignant la province (par exemple, AL pour Alberta). Ensuite viennent deux chiffres et deux lettres, respectivement pour le bassin et le sous-bassin, puis finalement un numéro séquentiel de quatre unités. Un index alphabétique des stations et une carte identifiant leur emplacement paraissent à la fin du rapport. La Division des relevés hydrologiques du Canada dispose également des données relatives au débit pour les stations auxquelles on a assigné un code paramétrique (p. ex.: 97900S). Les personnes qui désirent obtenir des données de débit précises, pour une station donnée, peuvent établir le numéro de référence approprié de la Division en remplaçant les quatre derniers chiffres du numéro de la station NAQUADAT par le code des unités, qui est indiqué à la suite du code paramétrique. L'index renferme également les coordonnées géographiques des lieux d'échantillonnage.

CODES DES MÉTHODES ANALYTIQUES

La méthode analytique employée est indiquée par le code de six éléments paraissant à la tête de chaque colonne de données. Si, pour une donnée particulière, la méthode analytique utilisée était différente de celle indiquée en rubrique, les trois dernières unités du code de la méthode appropriée paraîtraient alors à côté de la donnée. Le numéro de code du paramètre se présente sous la forme ZZXYYA, où:

(1) ZZ est un code numérique désignant le type d'essai, conformément à la liste suivante:

Essais	Code paramétrique
Essais chimiques	ATXYYA (AT: numéro atomique)
Bilans et autres paramètres calculés	00XYYA
Essais physiques généraux	02XYYA
Essais chimiques généraux	10XYYA

Pesticides and herbicides	18XYYA
Bacteriological tests	36XYYA
Biological information	54XYYA
Other information	97XYYA, 98XYYA and 99XYYA

(2) X is a one-digit numerical code (0-9) subdividing group (1).

(3) YY is a two-digit sequential numerical code identifying the analytical method used for the test. In certain cases this field is used to further subdivide the type of tests described in (1) and (2).

(4) A is a one digit alphabetical code indicating the place where the analysis was carried out, whether the sample was preserved and/or filtered, and whether the result is a mean or median of replicate analyses.

S in situ analysis
F field analysis
L laboratory analysis
P preserved in field; laboratory analysis
D filtered in field; laboratory analysis
R mean or median of laboratory analyzed replicates
G filtered and preserved in field; laboratory analysis
T mean or median of field filtered and preserved replicates; laboratory analyzed
U mean or median of field analyzed replicates
V mean or median of field filtered replicates; laboratory analysis
W mean or median of field preserved replicates; laboratory or field analysis

In some cases values within the same column have different numbers of significant figures. This may occur when two or more analytical methods have been used to measure a particular parameter and generally reflects the increased precision of the newer method.

A complete description of all the parameter code numbers is given in the NAQUADAT Dictionary.

Pesticides et herbicides	18XYYA
Essais bactériologiques	36XYYA
Renseignements biologiques	54XYYA
Autres renseignements	97XYYA, 98XYYA et 99XYYA

(2) X est un code numérique à un chiffre (0 à 9) qui subdivise le groupe (1).

(3) YY est un code numérique séquentiel qui précise la méthode analytique employée pour l'essai. Il sert quelquefois à subdiviser davantage le type d'essai décrit en (1) et (2).

(4) A est un code d'une lettre indiquant l'endroit de l'analyse et si l'échantillon a été conservé et/ou filtré et si le résultat est une moyenne ou une médiane des échantillons analysés.

S analyse sur le lieu-même
F analyse sur le terrain
L analyse au laboratoire
P conservé sur le terrain; analyse au laboratoire
D filtré sur le terrain; analyse au laboratoire
R moyenne ou médiane répétée d'échantillons analysés au laboratoire
G filtré et conservé sur le terrain; analyse au laboratoire
T moyenne ou médiane répétée des échantillons filtrés et conservés sur le terrain; analyse au laboratoire
U moyenne ou médiane répétée des échantillons analysés sur le terrain
V moyenne ou médiane répétée des échantillons filtrés sur le terrain; analyse au laboratoire
W moyenne ou médiane répétée des échantillons conservés sur le terrain; analyse au laboratoire ou sur le terrain

Quelquefois, dans la même colonne, des codes ne possèdent pas le même nombre d'éléments. Cela peut arriver lorsqu'on a utilisé deux méthodes analytiques ou plus pour mesurer un paramètre donné et le code révèle la précision accrue de la nouvelle méthode.

Le dictionnaire NAQUADAT donne une description complète de tous les numéros de code paramétrique.

DEFINITION OF TERMS AND SYMBOLS

G	greater than
JTU's	Jackson turbidity units
L	less than
Lat.	latitude in degrees, minutes and seconds
Long.	longitude in degrees, minutes and seconds
MG/L	milligrams per litre
NAQUADAT	National Water Quality Data Storage and Retrieval System
Q	signifies that at least one of the values used in the computation of this result was reported as less than the detection limit. In the computation of calculated parameters analytical values reported as "less than the detection limit" are interpreted as being equal to the numeric value of the detection limit. For example, when computing total nitrogen, given a total Kjeldahl nitrogen value of less than 0.1 milligram/litre (L 0.1 MG/L) and a dissolved nitrogen (NO_3 + NO_2) value of 0.07 MG/L, the numeric values would be simply added to give a total nitrogen Q.17 MG/L.
NO./100 ML	number per 100 millilitres
REL. UNITS	relative colour units
SUBM ID	submitter identification number. This identifies the sample collector and the project under which the data was collected.
UG/L	Micrograms per litre
USIE/CM	Microsiemens per centimetre

DÉFINITION DES TERMES ET DES SYMBOLES

G	plus grand que
JTU	unité de turbidité de Jackson
L	moins que
Lat.	latitude en degrés, minutes et secondes
Long.	longitude en degrés, minutes et secondes
MG/L	milligrammes par litre
NAQUADAT	banque nationale de stockage et de recouvrement des données sur la qualité des eaux
Q	signifie qu'au moins une des valeurs utilisées dans le calcul de ce résultat a été signalée comme étant inférieure à la limite de détection. Dans le calcul des paramètres, les valeurs analytiques signalées comme «inférieures à la limite de détection» ont été interprétées comme étant égales à la valeur numérique de la limite de détection. Par exemple, si l'on veut calculer la teneur en azote total, lorsqu'on a une valeur en azote total de Kjeldahl de moins de 0,1 milligramme par litre (L 0,1 MG/L) et une valeur de 0,07 MG/L pour l'azote dissous (NO_3 + NO_2), on n'a qu'à additionner les deux valeurs, ce qui donne pour l'azote total: Q.17 MG/L.
NO./100 ML	nombre par 100 millilitres
REL. UNITS	unités relatives de couleur
SUBM ID	identifie la personne qui a recueilli l'échantillon et le projet-cadre
UG/L	microgrammes par litre
USIE/CM	microsiemens par centimètre

ADDITIONAL INFORMATION

Additional information on these data or requests for data not included in this publication may be obtained from:

District Resource Officer
Water Quality Branch
Environment Canada
Rm. 854, 220-4th Avenue S.E.
Bag 2909, Postal Stn. "M"
Calgary, Alberta T2P 2M7

Phone: (403) 231-5320

Questions specifically relating to analytical methodologies should be directed to:

Head, Analytical Services Division
Water Quality Branch
Environment Canada
867 Lakeshore Road
Burlington, Ontario
L7R 4A6

Phone: (416) 637-4648

RENSEIGNEMENTS SUPPLÉMENTAIRES

Pour obtenir d'autres renseignements ou pour des données non comprises dans le présent rapport, écrire à:

Agent des ressources de district
Direction de la qualité des eaux
Environnement Canada
220, 4e avenue sud-ouest, pièce 854
Sac 2909, Station postale M
Calgary (Alberta)
T2P 2M7

Téléphone: (403) 231-5320

Pour les questions touchant directement les méthodes analytiques, s'adresser à:

Chef, Division des services d'analyse
Direction de la qualité des eaux
Environnement Canada
867 Lakeshore Road
Burlington, Ontario
L7R 4A6

Téléphone: (416) 637-4648

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AD0002 LAT. 49D 42M 29S LONG. 112D 52M 30S
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-22	1545	479	1.0	21.4	400.	509.	7.8	7.9	1.6	4.5
80-02-19	1630	479	.5	17.5	400.	501.	7.9	7.9	1.5	3.8
80-03-19	1530	479	.8	18.3	380.	446.	8.2	8.2	6.4	17.0
80-04-15	1915	479	10.5	23.0	510.	582.	--	8.4	--	2.2
80-05-13	1500	479	13.0	17.7	260.	292.	8.5	8.4	22.0	12.0
80-06-10	1310	479	17.0	18.7	240.	272.	--	8.3	48.0	28.0
80-07-15	1330	479	19.0	20.4	320.	352.	8.8	8.5	6.0	3.4
80-08-06	1530	479	18.0	21.2	280.	325.	8.5	8.5	10.0	6.5
80-09-16	1515	479	12.0	21.4	--	396.	8.5	8.4	13.0	11.0
80-10-21	1530	479	6.0	19.5	332.	395.	8.5	8.3	27.0	14.0
80-11-26	1645	479	1.0	20.1	--	382.	8.4	8.0	20.0	20.0
80-12-08	1620	479	.3	22.1	350.	480.	8.2	8.1	4.0	4.1
81-01-20	1630	479	2.0	17.5	279.	368.	8.4	8.3	32.0	20.0
81-02-17	1730	479	1.0	18.5	333.	410.	8.4	8.2	20.0	15.0
81-03-10	1930	479	5.5	17.5	320.	408.	8.6	8.4	5.0	3.0
81-04-08	1415	479	6.0	18.2	389.	484.	8.4	8.4	8.0	3.7
81-05-13	0730	479	9.0	21.0	255.	324.	8.5	8.3	120.0	80.0
81-06-02	1800	479	14.0	18.1	242.	275.	8.1	8.2	G200.0	90.0
81-07-02	1900	479	16.0	20.9	--	292.	8.3	8.4	34.0	--
81-08-18	1515	479	22.0	24.0	294.	382.	8.4	8.6	7.0	2.7
81-09-22	1349	479	12.0	22.4	393.	442	8.4	8.4	--	3.6
81-10-21	0730	479	4.0	16.1	461.	447.	8.3	8.2	--	3.3
81-11-17	1645	479	.5	23.4	436.	401.	8.7	8.2	--	6.8
81-12-08	1515	479	0.0	19.5	518.	503.	8.3	8.1	--	2.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-22	1545	479	5.	--	2.	--	--	25.	8.	10.
80-02-19	1630	479	20.	--	3.	--	--	--	235.	--
80-03-19	1530	479	40.	--	9.	--	--	55.	6.	37.
80-04-15	1915	479	10.	--	13.	--	.001	10.	6.	18.
80-05-13	1500	479	10	--	27.	--	.001	--	8.	--
80-06-10	1310	479	40.	--	--	--	.006	--	79.	139.
80-07-15	1330	479	10.	--	4.	--	.001	--	38.	173.
80-08-06	1530	479	20.	--	12.	--	L.001	--	66.	--
80-09-16	1515	479	20.	--	22.	--	.003	--	66.	G80.
80-10-21	1530	479	40.	--	43.	--	L.001	--	61.	--
80-11-26	1645	479	40.	--	27.	--	L.001	31.	L2.	12.
80-12-08	1820	479	30.	--	6.	--	L.001	6.	2.	--
81-01-20	1630	479	5.	--	57.	--	L.001	--	4.	--
81-02-17	1730	479	10.	--	25.	--	.001	13.	2.	G80.
81-03-10	1930	479	10.	--	12.	--	.001	L2.	L2.	L2.
81-04-08	1415	479	--	10.	4.	--	L.001	7.	L2.	L2.
81-05-13	0730	479	--	20.	125.	--	.005	100.	10.	20.
81-06-02	1800	479	--	10.	248.	--	L.001	440.	35.	380.
81-07-02	1900	479	--	10.	41.	--	.001	17.	10.	20.
81-08-18	1515	479	--	5.	4.	--	.001	40.	17.	10.
81-09-22	1349	479	--	10.	4. 01R	--	L.001 17T	L2. 02U	6. 12U	6. 03U
81-10-21	0730	479	--	10.	3.	--	.001	--	6.	--
81-11-17	1645	479	--	20.	14.	--	.002	16.	11.	G80.
81-12-08	1515	479	--	10.	3.	--	.001	6.	L2.	L2.

STATION - 00AL05AD0002
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

LAT. 49D 42M 28S LONG. 112D 52M 30S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101N OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-22	1645	479	14.3	0.	0.0	183.	150.0 06L	53.10	20.3	216.2
80-02-19	1630	479	12.1	0.	0.0	163.	134.0 06L	54.00	21.0	221.3
80-03-19	1530	479	13.5	0.	0.0	141.	116.0 06L	38.80	15.7	161.5
80-04-15	1915	479	9.9	2.	1.5	191.	160.0	52.30	21.5	219.1
80-05-13	1500	479	9.8	2.	2.0	135.	115.0	34.20	11.3	131.9
80-06-10	1310	479	8.4	0.	0.0	135.	111.0	31.00	11.2	123.5
80-07-15	1330	479	9.2	5.	3.9	145.	127.0	36.70	14.0	149.3
80-08-06	1530	479	9.3	5.	4.0	135.	119.0	30.50	14.9	137.5
80-09-16	1515	479	9.8	3.	2.6	159.	136.0	37.50	16.7	162.4
80-10-21	1530	479	10.6	0.	0.0	171.	140.0	40.10	15.5	163.9
80-11-26	1645	479	13.2	0.	0.0	177.	145.0	43.40	16.0	174.2
80-12-08	1620	479	11.6	0.	0.0	206.	169.0	44.20	18.2	185.3
81-01-20	1630	479	12.6	0.	0.0	173.	142.0	41.00	15.7	167.0
81-02-17	1730	479	12.1	0.	0.0	174.	143.0	45.00	15.8	177.4
81-03-10	1830	479	12.5	8.	6.9	170.	153.0	40.20	16.1	166.7
81-04-08	1415	479	12.5	0.	0.0	210.	172.0	49.00	21.0	208.8
81-05-13	0730	479	10.3	0.	0.0	162.	133.0	39.60	13.6	154.9
81-06-02	1600	479	9.2	0.	0.0	138.	113.0	34.60	11.2	132.5
81-07-02	1500	479	9.1	0.	0.0	150.	123.0	35.60	11.7	137.1
81-08-18	1515	479	8.8	3.	2.6	163.	139.0	39.80	15.8	164.4
81-09-22	1340	479	10.1	0.	.2	179.	147.0	38.60	18.6	173.0
81-10-21	0730	479	12.0	0.	0.0	195.	160.0	44.50	20.3	194.7
81-11-17	1545	479	12.1	0.	0.0	183.	150.0	45.50	17.4	185.3
81-12-08	1515	479	14.1	0.	0.0	239.	196.0	50.70	21.5	215.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-22	1645	479	237.	9.7	.7	2.2	.10	58.	3.2	--
80-02-19	1630	479	235.	16.0	1.1	2.1	.12	58.	2.5	--
80-03-19	1530	479	212.	19.0	2.7	2.6	.15	61.	2.4	--
80-04-15	1915	479	316.	33.0	2.6	3.4	.14	107.	.3	--
80-05-13	1500	479	151.	6.2	.8	.9	.09	26.	3.0	--
80-06-10	1310	479	140.	5.6	.8	.8	.08	20.	3.8	--
80-07-15	1330	479	181.	12.0	1.3	1.2	.12	38.	2.0	--
80-08-06	1530	479	--	--	3.0	6.0	.10	34.	2.0	--
80-09-16	1515	479	212.	16.0	1.2	1.8	.12	55.	2.0	--
80-10-21	1530	479	204.	13.0	1.1	2.0	.13	47.	1.7	--
80-11-26	1645	479	201.	10.0	.9	1.4	.09	40.	2.3	--
80-12-08	1620	479	226.	15.0	1.1	1.7	.11	41.	3.4	--
81-01-20	1630	479	187.	7.6	.8	1.3	.11	32.	3.5	--
81-02-17	1730	479	214.	13.0	.9	1.7	.13	49.	3.1	--
81-03-10	1830	479	212.	14.0	1.1	1.9	L.05	45.	1.8	--
81-04-08	1415	479	255.	19.0	1.4	2.0	L.05	57.	2.7	--
81-05-13	0730	479	176.	8.1	.9	1.1	L.05	28.	4.9	--
81-06-02	1600	479	143.	4.7	.7	.8	.11	18.	4.8	--
81-07-02	1500	479	152.	5.9	.7	1.0	.10	20.	3.3	--
81-08-18	1515	479	194.	13.0	1.3	1.4	.12	36.	2.8	--
81-09-22	1340	479	238.	22.0	1.5	2.2	.11	66.	1.2	--
81-10-21	0730	479	257.	23.0	1.5	2.4	.11	68.	1.0	--
81-11-17	1545	479	223.	15.0	1.2	1.7	.07	50.	1.8	--
81-12-08	1515	479	290.	22.0	1.3	2.3	.14	72.	3.0	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AD0002 LAT. 49D 42M 29S LONG. 112D 52M 30S
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-22	1545	479	.007	.006 03L	.001	.29 10L	--	.35	.03	.38
80-02-19	1830	479	.005	L.003 03L	Q.002	.22 10L	--	.32	.04	.36
80-03-19	1530	479	.030	.025 03L	.005	.15 10L	--	.43	.07	.50
80-04-15	1815	479	.031	.010	.021	L.01	.22	.21	.15	.36
80-05-13	1500	479	.026	.003	.023	.03	.10	--	.16	--
80-06-10	1310	479	.058	L.003	Q.055	.05	.13	.14	.21	.35
80-07-15	1330	479	.010	.003	.007	L.01	.13	.13	.08	.21
80-08-06	1530	479	.031	.021	.010	.02	.12	.15	.09	.24
80-09-16	1515	479	.019	L.003	Q.016	L.01	.11	.13	.08	.21
80-10-21	1530	479	.051	.019	.032	.03	.16	.16	.16	.32
80-11-26	1645	479	.024	L.003	Q.021	.06	.16	--	.13	--
80-12-09	1620	479	.004	.004	0.000	.15	.21	.21	L.01	Q.22
81-01-20	1630	479	.034	.006	.028	.12	.17	.18	.12	.30
81-02-17	1730	479	.044	L.003	Q.041	.14	.20	.23	.06	.29
81-03-10	1830	479	.005	L.003	Q.002	.03	.15	.11	.06	.17
81-04-08	1415	479	.011	L.003	Q.008	L.01	.13	.14	L.01	Q.15
81-05-13	0730	479	.085	.007	.078	.06	.18	.20	.24	.44
81-06-02	1600	479	.160	.003	.157	.11	.21	.24	.30	.54
81-07-02	1500	479	.036	.007	.029	.02	.10	.12	.09	.21
81-08-18	1515	479	.017	.006	.011	L.01	.15	.13	.04	.17
81-09-22	1349	479	.009 06R	.006 03V	.003	L.01 10V	.14 51V	.16 51R	.04 02R	.20
81-10-21	0730	479	.008	L.003	Q.005	.02	.12	.13	.05	.18
81-11-17	1545	479	.043	.010	.033	.05	.13	.15	.08	.23
81-12-06	1515	479	L.003	L.003	QQ.000	.20	.27	.26	L.01	Q.27

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-22	1545	479	L.1	--	41.0	2.0	.12	2.1	.006	.07 05P
80-02-19	1830	479	L.1	--	28.0	1.0	.14	1.1	--	--
80-03-19	1530	479	L.1	--	26.0	4.0	.43	4.4	--	--
80-04-15	1815	479	L.1	--	--	4.0 04D	--	--	--	--
80-05-13	1500	479	L.1	--	--	3.0 04D	--	--	--	--
80-06-10	1310	479	L.1	--	--	2.0 04D	2.20	4.2	--	--
80-07-15	1330	479	L.1	--	--	2.0 04D	.44	2.4	--	--
80-08-06	1530	479	L.1	--	--	2.0 04D	.69	2.7	--	--
80-09-16	1515	479	L.1	--	--	1.0 04D	.65	1.7	--	--
80-10-21	1530	479	L.1	--	--	2.0 04D	2.70	4.7	--	--
80-11-26	1645	479	L.1	--	--	1.0 04D	.87	1.9	--	--
80-12-09	1620	479	L.1	--	--	1.0 04D	.23	1.2	--	--
81-01-20	1630	479	L.1	--	--	1.0 04D	1.20	2.2	--	--
81-02-17	1730	479	L.1	--	--	2.0 04D	.67	2.7	--	--
81-03-10	1830	479	L.1	--	--	2.0 04D	.28	2.3	--	--
81-04-08	1415	479	L.1	--	--	2.4	.43	2.8	--	--
81-05-13	0730	479	L.1	--	--	3.3	2.50	5.8	--	--
81-06-02	1600	479	L.1	--	--	2.5	4.40	6.9	--	--
81-07-02	1500	479	L.1	--	--	2.4	.90	3.3	--	--
81-08-18	1515	479	L.1	--	--	2.0	.26	2.3	--	--
81-09-22	1349	479	L.1 06N	--	--	1.8 04R	.34 02R	2.1	--	--
81-10-21	0730	479	L.1	--	--	2.2	.30	2.5	--	--
81-11-17	1545	479	L.1	--	--	2.7	.83	3.5	--	--
81-12-06	1515	479	L.1	--	--	2.1	.13	2.2	--	--

STATION - 00AL05AD0002 LAT. 49D 42M 29S LONG. 112D 52M 30S
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304F MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-22	1545	479	.03	L.0005 04L	.0013 02L	L.01	--	.08	--	.05
80-02-19	1630	479	--	--	--	--	--	--	--	L.02
80-03-18	1530	479	--	--	--	--	--	--	--	.02
80-04-15	1915	479	.03	L.0005	.0006	--	.01	--	L.04	.02
80-05-13	1500	479	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-10	1310	479	.04	L.0005	L.0005	--	L.01	--	L.04	.03
80-07-15	1330	479	.03	L.0005	.0005	--	L.01	--	L.04	L.02
80-08-06	1530	479	.03	.0007	.0008	--	L.01	--	L.04	L.02
80-09-16	1515	479	.04	L.0005	.0007	--	L.01	--	L.04	L.02
80-10-21	1530	479	L.02	L.0005	.0007	--	L.01	--	L.04	L.02
80-11-26	1645	479	.04	L.0005	L.0005	--	.01	--	L.04	L.02
80-12-08	1620	479	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-20	1630	479	.06	L.0005	.0005	--	L.01	--	L.04	L.02
81-02-17	1730	479	.03	L.0005	.0006	--	L.01	--	L.04	.02
81-03-10	1630	479	.07	.0009	.0006	--	L.01	--	L.04	.05
81-04-08	1415	479	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-13	0730	479	.06	L.0005	.0011	--	L.01	--	L.04	L.02
81-06-02	1600	479	.06	.0008	L.0005	--	L.01	--	L.04	L.02
81-07-02	1500	479	.04	L.0005	L.0005	--	.01	--	L.04	L.02
81-08-18	1515	479	.04	.0005	.0005	--	L.01	--	L.04	L.02
81-09-22	1349	479	.03 05V	L.0005 04V	.0007 02V	--	L.01 04T	--	L.04 04T	L.02 11W
81-10-21	0730	479	.04 05D	L.0005	.0008	--	L.01	--	L.04	L.02
81-11-17	1545	479	.04 05D	L.0005	.0009	--	L.01	--	L.04	L.02
81-12-08	1515	479	.05 05D	.0005	.0014	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-22	1545	479	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-13	1500	479	--	.001	--	--	L.002	--	.002	L.004
80-08-06	1530	479	--	L.001	--	--	L.002	--	L.002	L.004
80-10-21	1530	479	--	L.001	--	--	L.002	--	.003	L.004
81-01-20	1630	479	--	.002	--	--	L.002	--	.005	L.004
81-05-13	0730	479	--	.001	--	--	.002	--	--	L.004
81-08-18	1515	479	--	L.001	--	--	L.002	--	L.002	L.004
81-10-21	0730	479	--	.002	--	--	L.002	--	L.002	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-22	1545	479	.002	--	.001	--	.31	L.10	L.001	--
80-05-13	1500	479	--	.002	--	.006	--	--	--	L.001
80-08-06	1530	479	--	.002	--	.003	--	--	--	L.001
80-10-21	1530	479	--	.004	--	.019	--	--	--	L.001
81-01-20	1630	479	--	.002	--	.006	--	--	--	L.001
81-05-13	0730	479	--	.005	--	--	--	--	--	L.001
81-08-18	1515	479	--	L.001	--	.004	--	--	--	L.001
81-10-21	0730	479	--	L.001	--	.001	--	--	--	L.001

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AD0002 LAT. 49D 42M 28S LONG. 112D 53M 30S
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-22	1545	479	.10	--	L.004	--	--	.001	--	--
80-02-19	1630	479	--	--	--	--	--	L.001	--	--
80-03-19	1530	479	--	--	--	--	--	.001	--	--
80-04-15	1915	479	--	--	--	--	--	.001	--	--
80-05-13	1500	479	--	.08	--	L.004	--	.004	--	--
80-06-10	1310	479	--	--	--	--	--	L.001	--	--
80-07-15	1330	479	--	--	--	--	--	L.001	--	--
80-08-06	1530	479	--	.05	--	L.004	--	.002	--	--
80-09-16	1515	479	--	--	--	--	--	L.001	--	--
80-10-21	1530	479	--	.08	--	.031	--	.002	--	--
80-11-26	1645	479	--	--	--	--	--	L.001	--	--
80-12-09	1620	479	--	--	--	--	--	L.001	--	--
81-01-20	1630	479	--	.07	--	L.004	--	L.001	--	--
81-02-17	1730	479	--	--	--	--	--	L.001	--	--
81-03-10	1630	479	--	--	--	--	--	L.001	--	--
81-04-08	1415	479	--	--	--	--	--	L.001	--	--
81-05-13	0730	479	--	.09	--	L.004	--	L.001	--	--
81-06-02	1600	479	--	--	--	--	--	L.001	--	--
81-07-02	1500	479	--	--	--	--	--	.004	--	--
81-08-18	1515	479	--	.13	--	.004	--	L.001	--	--
81-09-22	1340	479	--	--	--	--	--	.001 35W	--	--
81-10-21	0730	479	--	.13	--	L.004	--	L.001	--	--
81-11-17	1545	479	--	--	--	--	--	.002	--	--
81-12-06	1515	479	--	--	--	--	--	.004	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-22	1545	479	--	--	L.001	L.001	.001	.001	L.002	L.001
80-05-13	1500	479	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-08-06	1530	479	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-10-21	1530	479	--	--	L.001	L.001	.006	L.001	L.002	L.001
81-01-20	1630	479	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-05-13	0730	479	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-08-18	1515	479	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-10-21	0730	479	--	--	L.001	L.001	.006	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-22	1545	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-13	1500	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-06	1530	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-21	1530	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-20	1630	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-13	0730	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-18	1515	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-21	0730	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

STATION - 00AL05AB0002
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

LAT. 49D 42M 29S LONG. 112D 52M 30S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L NEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-22	1545	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-13	1500	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-06	1530	479	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004
80-10-21	1530	479	L.002	L.001	L.003	L.002	L.2	.070	L.009	L.004
81-01-20	1830	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-13	0730	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-18	1515	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-21	0730	479	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-22	1545	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-13	1500	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-06	1530	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-21	1530	479	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-01-20	1830	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-05-13	0730	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-08-18	1515	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-10-21	0730	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-22	1545	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-08-06	1530	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-10-21	1530	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-01-20	1830	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-05-13	0730	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-08-18	1515	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-10-21	0730	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-22	1545	479	L.02	L.02	L.02	L.02	L.02
80-08-06	1530	479	L.02	L.02	L.02	L.02	L.02
80-10-21	1530	479	L.02	L.02	L.02	L.02	L.02
81-01-20	1830	479	L.02	L.02	L.02	L.02	L.02
81-05-13	0730	479	L.02	L.02	L.02	L.02	L.02
81-08-18	1515	479	L.02	L.02	L.02	L.02	L.02
81-10-21	0730	479	L.02	L.02	L.02	L.02	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05AB0005 LAT. 49D 6M 50S LONG. 113D 50M 20S
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-23	1345	3	1.5	13.4	--	198.	7.6	8.0	.8	1.0
80-02-20	1740	3	.5	22.5	--	381.	7.9	7.9	.4	1.5
80-03-20	1630	3	2.0	20.7	160.	195.	8.1	8.0	.7	.9
80-04-17	0915	3	5.5	22.1	165.	190.	8.4	8.2	2.0	2.0
80-05-15	0745	3	6.5	18.3	140.	157.	8.4	8.1	1.0	.8
80-06-12	0730	3	9.0	19.6	--	225.	--	8.1	8.4	4.5
80-07-16	1600	3	14.0	18.1	--	218.	8.4	8.2	1.5	2.5
80-08-07	1500	3	16.0	19.6	145.	161.	8.6	8.5	1.0	.6
80-09-17	1445	3	10.0	21.5	160.	184.	8.3	8.2	1.8	1.3
80-10-22	1600	3	4.0	21.1	165.	190.	8.2	8.2	1.0	2.4
80-11-26	1630	3	1.0	20.3	156.	188.	8.2	7.9	3.0	2.8
80-12-10	1615	3	.5	21.2	147.	185.	8.0	8.2	1.0	1.4
81-01-21	1600	3	2.0	22.0	145.	186.	8.2	8.2	1.0	1.5
81-02-18	1630	3	1.5	21.1	179.	219.	8.2	8.1	1.6	1.5
81-03-11	1430	3	3.0	17.1	175.	209.	8.3	8.2	2.0	1.8
81-04-08	1100	3	3.0	17.7	168.	197.	8.2	8.1	3.0	2.0
81-05-14	0650	3	7.0	20.9	152.	173.	8.0	8.0	2 0	1.5
81-06-03	1515	3	8.0	15.8	--	175.	8.1	8.1	7.0	3.2
81-07-03	1130	3	10.0	21.8	--	160.	8.0	8.2	3.0	1.5
81-08-19	1400	3	18.0	18.8	--	179.	8.3	8.2	1.0	.8
81-09-24	0830	3	8.0	22.4	255.	187.	8.2	8.3	--	1.3
81-10-21	1400	3	4.0	15.9	186.	187.	7.7	8.1	--	1.3
81-11-18	1545	3	1.0	22.8	200.	190.	8.4	8.1	--	2.3
81-12-17	1340	3	.5	19.8	191.	183.	8.3	8.0	--	.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-23	1345	3	5.	--	1. 01R	--	--	2. 02U	L2. 12U	--
80-02-20	1740	3	10.	--	2.	--	--	2.	L2.	--
80-03-20	1630	3	10.	--	4.	--	--	L2.	L2.	--
80-04-17	0915	3	5.	--	3.	--	.001	L2.	L2	--
80-05-15	0745	3	5.	--	1.	--	.002	--	L2.	--
80-06-12	0730	3	5.	--	9.	--	.001	--	8.	--
80-07-16	1600	3	10.	--	7.	--	.001	10.	L2.	--
80-08-07	1500	3	10.	--	2.	--	.001	--	5.	--
80-09-17	1445	3	10.	--	4.	--	.004	--	5.	--
80-10-22	1600	3	10.	--	3.	--	.001	L2.	L2.	--
80-11-26	1630	3	20	--	3.	--	.003	L2.	L2.	--
80-12-10	1615	3	20.	--	1.	--	L.001	--	--	--
81-01-21	1600	3	5.	--	1.	--	L.001	L2.	L2.	--
81-02-18	1630	3	L5.	--	L1.	--	L.001	2.	L2.	--
81-03-11	1430	3	5.	--	4.	--	.002	L2.	L2.	--
81-04-08	1100	3	--	20.	3.	--	.002	L2.	L2.	--
81-05-14	0650	3	--	5.	5.	--	L.001	L2.	L2.	--
81-06-03	1515	3	--	5.	5.	--	.001	L2.	L2.	--
81-07-03	1130	3	--	5.	3.	--	.001	L2.	L2.	--
81-08-19	1400	3	--	5.	L1.	--	.001	2.	L2.	--
81-09-24	0830	3	--	10.	L1.	--	.001	--	12.	--
81-10-21	1400	3	--	5.	1	--	.001	L2.	L2.	--
81-11-18	1545	3	--	10.	1.	--	.006	L2.	L2.	--
81-12-17	1340	3	--	10.	1.	--	.003	L1.	L1.	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AB0005 LAT. 49D 6M 50S LONG. 113D 50M 20S
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-23	1345	3	13.0	--	0.0	--	--	25.00	8.8	98.7
80-02-20	1740	3	11.6	0.	0.0	71.	58.0 06L	24.60	9.1	98.9
80-03-20	1630	3	13.1	0.	0.0	77.	63.0 06L	21.00	7.8	84.6
80-04-17	0915	3	10.2	0.	0.0	104.	85.0	23.00	7.1	86.7
80-05-15	0745	3	10.8	0.	0.0	94.	77.0	21.70	7.2	83.8
80-06-12	0730	3	9.3	0.	0.0	89.	73.0	29.90	7.1	103.9
80-07-16	1600	3	9.9	0.	0.0	94.	77.0	29.30	7.3	103.2
80-08-07	1500	3	9.5	6.	5.3	82.	78.0	21.30	8.4	87.8
80-09-17	1445	3	9.2	0.	0.0	100.	82.0	22.50	8.5	91.2
80-10-22	1600	3	10.3	0.	0.0	104.	85.0	23.40	7.6	89.7
80-11-26	1630	3	12.2	0.	0.0	102.	84.0	24.30	8.7	96.5
80-12-10	1615	3	10.5	0.	0.0	101.	83.0	22.60	7.9	89.0
81-01-21	1600	3	11.6	0.	0.0	100.	82.0	22.20	7.6	86.7
81-02-18	1630	3	11.4	0.	0.0	117.	96.0	26.40	10.5	109.2
81-03-11	1430	3	11.4	0.	0.0	122.	100.0	25.00	8.6	97.8
81-04-08	1100	3	12.6	0.	0.0	106.	87.0	25.50	9.5	102.8
81-05-14	0650	3	10.8	0.	0.0	95.	78.0	21.70	7.5	85.1
81-06-03	1515	3	10.2	0.	0.0	106.	87.0	24.50	8.2	94.9
81-07-03	1130	3	9.8	0.	0.0	90.	74.0	20.80	4.2	69.2
81-08-19	1400	3	9.1	0.	0.0	102.	84.0	22.00	8.8	91.2
81-09-24	0830	3	9.4	0.	0.0	105.	86.0	23.50	8.4	93.3
81-10-21	1400	3	11.0	0.	0.0	106.	87.0	24.80	9.0	99.0
81-11-18	1545	3	11.2	0.	0.0	112.	92.0	25.80	9.2	102.3
81-12-17	1340	3	13.0	0.	0.0	111.	91.0	25.20	8.3	97.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-23	1345	3	--	1.0	.2	.3	L.05	5.	1.7	--
80-02-20	1740	3	77.	.8	.2	.5	L.05	5.	1.9	--
80-03-20	1630	3	74.	.8	.3	.3	L.05	4.	2.0	--
80-04-17	0915	3	89.	.8	.3	.4	.04	4.	2.3	--
80-05-15	0745	3	84.	.7	.2	.3	L.05	5.	3.1	--
80-06-12	0730	3	111.	.6	.2	.3	L.05	26.	3.2	--
80-07-16	1600	3	109.	.8	.2	.2	L.05	22.	2.8	--
80-08-07	1500	3	85.	.9	.2	.4	L.05	4.	2.7	--
80-09-17	1445	3	89.	1.0	.2	.3	L.05	5.	2.3	--
80-10-22	1600	3	90.	.8	.3	.3	.07	5.	1.5	--
80-11-26	1630	3	91.	.9	.3	.4	L.05	4.	1.8	--
80-12-10	1615	3	88.	.9	.2	.3	.05	4.	2.0	--
81-01-21	1600	3	88.	.6	.3	.3	.05	5.	2.7	--
81-02-18	1630	3	105.	1.3	.3	.3	.07	5.	3.3	--
81-03-11	1430	3	104.	1.3	.4	.4	.08	5.	3.0	--
81-04-08	1100	3	97.	.7	.4	.3	L.05	5.	3.0	--
81-05-14	0650	3	85.	.8	.2	.2	L.05	5.	3.0	--
81-06-03	1515	3	95.	1.2	.2	.3	L.05	4.	3.9	--
81-07-03	1130	3	78.	.6	.2	.3	L.05	4.	3.2	--
81-08-19	1400	3	90.	.8	.2	.3	L.05	4.	3.0	--
81-09-24	0830	3	91.	1.0	.2	.2	L.05	4.	2.4	--
81-10-21	1400	3	93.	.7	.2	.2	L.05	4.	1.4	--
81-11-18	1545	3	98.	.9	.4	.3	L.05	5.	1.6	--
81-12-17	1340	3	96.	.8	.2	.3	L.05	5.	1.6	--

STATION - 00AL05AD0005 LAT. 49D 8M 50S LONG. 113D 50M 20S
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-23	1345	3	.003 06R	L.003 03R	Q0.000	.07 10R	--	.10 51R	.05 02R	.15
80-02-20	1740	3	L.003	L.003 03L	Q0.000	.07 10L	--	.12	.04	.16
80-03-20	1630	3	.003	.003 03L	0.000	.06 10L	--	.10	.04	.14
80-04-17	0915	3	.007	L.003	Q.004	.05	.09	.10	.13	.23
80-05-15	0745	3	.004	L.003	Q.001	.12	.13	.19	.05	.24
80-06-12	0730	3	.006	L.003	Q.003	.12	.16	.16	.05	.21
80-07-16	1800	3	L.003	L.003	Q0.000	.12	.14	.14	L.01	Q.15
80-08-07	1500	3	.027	.003	.024	.06	.10	.12	.07	.19
80-09-17	1445	3	L.003	L.003	Q0.000	.04	.09	.09	.06	.15
80-10-22	1600	3	L.003	L.003	Q0.000	.03	.07	.07	.04	.11
80-11-26	1630	3	.088	L.003	Q.085	.06	.10	.14	.06	.20
80-12-10	1615	3	.003	L.003	Q0.000	.07	.10	.12	L.01	Q.13
81-01-21	1600	3	L.003	L.003	Q0.000	.11	.12	.12	L.01	Q.13
81-02-18	1630	3	L.003	L.003	Q0.000	.09	.14	.14	.07	.21
81-03-11	1430	3	L.003	L.003	Q0.000	.12	.16	.21	.06	.27
81-04-09	1100	3	L.003	L.003	Q0.000	.09	.13	.15	.07	.22
81-05-14	0650	3	L.003	L.003	Q0.000	.12	.15	.15	.03	.18
81-06-03	1515	3	.009	L.003	Q.006	.13	.18	.18	L.01	Q.19
81-07-03	1130	3	.010	.007	.003	.13	.15	.15	.03	.18
81-08-19	1400	3	L.003	L.003	Q0.000	.07	[illegible]	.12	L.01	Q.13
81-09-24	0830	3	L.003	L.003	Q0.000	.03	.11	.09	L.01	Q.10
81-10-21	1400	3	L.003	L.003	Q0.000	.03	.07	.06	.05	.11
81-11-18	1545	3	.017	.005	.012	.03	.05	--	L.01	--
81-12-17	1340	3	L.003	L.003	Q0.000	.03	.05	.05	L.01	Q.06

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-23	1345	3	--	--	19.0 52R	1.0 04R	.15 02R	1.2	--	--
80-02-20	1740	3	--	--	17.0	1.0	.20	1.2	--	--
80-03-20	1630	3	--	--	14.0	L1.0	.22	Q1.2	--	--
80-04-17	0915	3	--	--	--	1.0	--	--	--	--
	0915	3	--	--	--	1.0 04D	--	--	--	--
80-05-15	0745	3	--	--	--	L1.0 04D	--	--	--	--
80-06-12	0730	3	--	--	--	1.0 04D	.30	1.3	--	--
80-07-16	1800	3	--	--	--	L1.0 04D	.23	Q1.2	--	--
80-08-07	1500	3	--	--	--	L1.0 04D	.24	Q1.2	--	--
80-09-17	1445	3	--	--	--	L1.0 04D	.25	Q1.3	--	--
80-10-22	1600	3	--	--	--	1.0 04D	.28	1.3	--	--
80-11-26	1630	3	--	--	--	L1.0 04D	.28	Q1.3	--	--
80-12-10	1615	3	--	--	--	L1.0 04D	.13	Q1.1	--	--
81-01-21	1600	3	--	--	--	L1.0 04D	.12	Q1.1	--	--
81-02-18	1630	3	--	--	--	1.0 04D	.20	1.2	--	--
81-03-11	1430	3	--	--	--	L1.0 04D	.30	Q1.3	--	--
81-04-09	1100	3	L.1	--	--	--	.29	--	--	--
81-05-14	0650	3	L.1	--	--	1.0	.21	1.2	--	--
81-06-03	1515	3	L.1	--	--	1.8	.25	2.1	--	--
81-07-03	1130	3	L.1	--	--	.9	.30	1.2	--	--
81-08-19	1400	3	L.1	--	--	.9	.20	1.1	--	--
81-09-24	0830	3	L.1	--	--	.6	.23	.8	--	--
81-10-21	1400	3	L.1	--	--	1.0	.25	1.3	--	--
81-11-18	1545	3	L.1	--	--	1.5	.25	1.8	--	--
81-12-17	1340	3	L.1	--	--	1.0	.13	1.1	--	--

STATION - 00AL05AD0005 LAT. 49D 6M 50S LONG. 113D 50M 20S
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-23	1345	3	L.02	L.0005 04L	L.0005 02L	.01 04W	--	L.04 04W	--	L.02 11W
80-02-20	1740	3	L.02	L.0005 04L	L.0005 02L	.01	--	L.04	--	L.02
80-03-20	1630	3	L.02	L.0005 04L	L.0005 02L	L.01	--	L.04	--	L.02
80-04-17	0915	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-05-15	0745	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-12	0730	3	.03	L.0005	L.0005	--	L.01	--	L.04	.03
80-07-16	1600	3	.03	L.0005	L.0005	--	L.01	--	L.04	.06
80-08-07	1500	3	L.02	.0005	L.0005	--	L.01	--	L.04	L.02
80-09-17	1445	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-22	1600	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-26	1630	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-10	1615	3	.03	.0005	L.0005	--	L.01	--	L.04	L.02
81-01-21	1600	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-18	1630	3	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-11	1430	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-04-09	1100	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-14	0650	3	.03	L.0005	.0017	--	L.01	--	L.04	L.02
81-06-03	1515	3	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-03	1130	3	.03	L.0005	L.0005	--	.02	--	L.04	L.02
81-08-19	1400	3	.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-24	0830	3	.02 05D	.0005	L.0005	--	L.01	--	L.04	L.02
81-10-21	1400	3	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-18	1545	3	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-17	1340	3	.02 05D	L.0005	L 0005	--	L.01	--	L.04	.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-23	1345	3	L.001 02W	--	--	L.002 02W	--	--	--	--
80-02-20	1740	3	L.001	--	--	L.002	--	--	--	--
80-03-20	1630	3	L.001	--	--	L 002	--	--	--	--
80-04-17	0915	3	--	L.001	--	--	.006	--	.017	--
80-05-15	0745	3	--	.001	--	--	.002	--	.004	--
80-06-12	0730	3	--	L.001	--	--	.002	--	.003	--
80-07-16	1600	3	--	L.001	--	--	L.002	--	L.002	--
80-08-07	1500	3	--	L.001	--	--	L.002	--	L.002	--
80-09-17	1445	3	--	L.001	--	--	L.002	--	.003	--
80-10-22	1600	3	--	L.001	--	--	L.002	--	L.002	--
80-11-26	1630	3	--	L.001	--	--	L.002	--	L.002	--
80-12-10	1615	3	--	L.001	--	--	L.002	--	L.002	--
81-01-21	1600	3	--	L.001	--	--	L.002	--	.006	--
81-02-18	1630	3	--	L.001	--	--	.009	--	.012	--
81-03-11	1430	3	--	L.001	--	--	L.002	--	L.002	--
81-04-09	1100	3	--	L.001	--	--	L.002	--	--	--
81-05-14	0650	3	--	L.001	--	--	.002	--	--	--
81-06-03	1515	3	--	.001	--	--	.002	--	--	--
81-07-03	1130	3	--	L.001	--	--	L.002	--	.003	--
81-08-19	1400	3	--	L.001	--	--	L.002	--	L.002	--
81-09-24	0830	3	--	L.001	--	--	L.002	--	L.002	--
81-10-21	1400	3	--	L.001	--	--	L.002	--	L.002	--
81-11-18	1545	3	--	L.001	--	--	L.002	--	L.002	--
81-12-17	1340	3	--	L.001	--	--	L.002	--	.013	--

STATION - 00AL05AD0005
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA LAT. 49D 6M 50S LONG. 113D 50M 20S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-23	1345	3	L.001 05W	--	L.001 05W	--	--	--	L.001 02W	--
80-02-20	1740	3	L.001	--	L.001	--	--	--	L.001	--
80-03-20	1630	3	.003	--	L.001	--	--	--	L.001	--
80-04-17	0915	3	--	.004	--	.004	--	--	--	.002
80-05-15	0745	3	--	.001	--	.013	--	--	--	L.001
80-06-12	0730	3	--	.001	--	.005	--	--	--	L.001
80-07-16	1600	3	--	.001	--	.005	--	--	--	L.001
80-08-07	1500	3	--	L.001	--	.002	--	--	--	L.001
80-09-17	1445	3	--	L.001	--	.006	--	--	--	L.001
80-10-22	1600	3	--	L.001	--	L.001	--	--	--	.001
80-11-26	1630	3	--	.003	--	.003	--	--	--	L.001
80-12-10	1615	3	--	.005	--	.003	--	--	--	L.001
81-01-21	1600	3	--	L.001	--	L.001	--	--	--	L.001
81-02-18	1630	3	--	.002	--	.001	--	--	--	.001
81-03-11	1430	3	--	L.001	--	.002	--	--	--	L.001
81-04-09	1100	3	--	L.001	--	--	--	--	--	L.001
81-05-14	0850	3	--	.002	--	--	--	--	--	L.001
81-06-03	1515	3	--	L.001	--	L.001	--	--	--	L.001
81-07-03	1130	3	--	L.001	--	.010	--	--	--	L.001
81-08-19	1400	3	--	.005	--	L.001	--	--	--	.001
81-09-24	0830	3	--	L.001	--	.001	--	--	--	L.001
81-10-21	1400	3	--	.002	--	.009	--	--	--	L.001
81-11-18	1545	3	--	L.001	--	.001	--	--	--	L.001
81-12-17	1340	3	--	L.001	--	.002	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-23	1345	3	.08 01W	--	L.004 02W	--	.002 04W	L.001 35W	--	--
80-02-20	1740	3	15	--	L.004	--	.001	L.001	--	--
80-03-20	1630	3	.10	--	L.004	--	.001	L.001	--	--
80-04-17	0915	3	--	.10	--	.006	L.001	L.001	--	--
80-05-15	0745	3	--	.08	--	L.004	L.001	L.001	--	--
80-06-12	0730	3	--	.09	--	L.004	.001	L.001	--	--
80-07-16	1600	3	--	.08	--	L.004	.001	L.001	--	--
80-08-07	1500	3	--	L.05	--	L.004	--	.001	--	--
80-09-17	1445	3	--	.07	--	L.004	.001	.002	--	--
80-10-22	1600	3	--	.12	--	L.004	.001	.002	--	--
80-11-26	1630	3	--	.11	--	.005	.002	.002	--	--
80-12-10	1615	3	--	.13	--	L.004	.003	L.001	--	--
81-01-21	1600	3	--	.05	--	L.004	.002	L.001	--	--
81-02-18	1630	3	--	.11	--	L.004	.002	L.001	--	--
81-03-11	1430	3	--	L.05	--	L.004	.002	L.001	--	--
81-04-09	1100	3	--	.14	--	L.004	--	L.001	--	--
81-05-14	0850	3	--	L.05	--	L.004	.001	L.001	--	--
81-06-03	1515	3	--	L.05	--	.034	.002	L.001	--	--
81-07-03	1130	3	--	.06	--	.004	.002	L.001	--	--
81-08-19	1400	3	--	.09	--	L.004	.003	L.001	--	--
81-09-24	0830	3	--	.10	--	L.004	.002	.005	--	--
81-10-21	1400	3	--	.09	--	L.004	.001	L.001	--	--
81-11-18	1545	3	--	.13	--	L.004	L.001	L.001	--	--
81-12-17	1340	3	--	.09	--	L.004	.001	L.001	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AB0005 LAT. 49D 6M 80S LONG. 113D 50M 30S
WATERTON RIVER AT HWY 5 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-23	1345	3	--	--	L.001 30R	L.001 11R	.005 75R	L.001 70R	L.002 10R	L.001 20R
80-02-20	1740	3	--	--	L.001	L.001	.005	L.001	L.002	L.001
80-03-20	1830	3	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-04-17	0915	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-05-15	0745	3	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-06-12	0730	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-07-15	1600	3	--	--	L.001	L.001	.008	L.001	L.002	L.001
80-08-17	1445	3	--	--	L.001	L.001	.009	L.001	L.002	L.001
80-10-22	1800	3	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-11-26	1830	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-12-10	1815	3	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-01-21	1800	3	--	--	L.001	L.001	.009	L.001	L.002	L.001
81-02-18	1830	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-03-11	1430	3	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-04-08	1100	3	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-05-14	0850	3	--	--	L.001	L.001	.002	.002	L.002	L.001
81-06-03	1515	3	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-07-03	1130	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-08-19	1400	3	--	--	L.001	L.001	.008	L.001	L.002	L.001
81-09-24	0830	3	--	--	L.001	L.001	.010	L.001	L.002	L.001
81-10-21	1400	3	--	--	L.001	L.001	.008	L.001	L.002	L.001
81-11-18	1545	3	--	--	L.001	L.001	.009	L.001	L.002	L.001
81-12-17	1340	3	--	--	L.001	L.001	.009	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-23	1345	3	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
80-02-20	1740	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-03-20	1830	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-04-17	0915	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-15	0745	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-06-12	0730	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-07-15	1600	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-17	1445	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-22	1800	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-11-26	1830	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-12-10	1815	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-21	1800	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-02-18	1830	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-03-11	1430	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-04-08	1100	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-14	0850	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-06-03	1515	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-07-03	1130	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-19	1400	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-09-24	0830	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-21	1400	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-11-18	1545	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-12-17	1340	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

STATION - 00AL05AB0005 LAT. 49D 6M 50S LONG. 113D 50M 20S
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-23	1345	3	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W	L.004 55W
80-02-20	1740	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-03-20	1630	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-04-17	0915	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-15	0745	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-06-12	0730	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-07-16	1600	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-07	1500	3	--	--	--	--	L.2	L.004	L.009	L.004
80-09-17	1445	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-22	1600	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-11-26	1630	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-12-10	1615	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-21	1600	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-02-18	1630	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-03-11	1430	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-04-09	1100	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-14	0850	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-06-03	1515	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-07-03	1130	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-19	1400	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-09-24	0830	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-21	1400	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-11-18	1545	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-12-17	1340	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-23	1345	3	L.002 10W	L.004 40W	L.2 01W	--	L.002 60R	L.002 61R	L.005 62R	L.020 64R
80-02-20	1740	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-03-20	1630	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-04-17	0915	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-15	0745	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-06-12	0730	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-07-16	1600	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-07	1500	3	L.002	L.004	L.2	--	--	--	--	--
80-09-17	1445	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-10-22	1600	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-11-26	1630	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
80-12-10	1615	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-01-21	1600	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-02-18	1630	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-03-11	1430	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-04-09	1100	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-05-14	0850	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-06-03	1515	3	.005	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-03	1130	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-19	1400	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-09-24	0830	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-10-21	1400	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-11-18	1545	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-12-17	1340	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05AD0060 LAT. 49D 3M 65 LONG. 113D 41M 7S
BELLY RIVER AT HWY 6, WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-23	1645	3	1.0	13.2	--	244.	--	8.2	.8	.3
80-02-20	1710	3	2.0	21.8	--	253.	7.9	8.1	.4	.7
80-03-20	1545	3	1.5	22.6	210.	252.	7.9	8.0	.7	.7
80-04-17	1100	3	3.5	24.0	230.	275.	8.0	8.2	6.2	2.6
80-05-15	0830	3	4.0	18.3	150.	161.	8.1	8.0	3.2	2.1
80-06-11	1430	3	10.0	19.6	160.	160.	--	8.0	36.0	23.0
80-07-16	1445	3	11.0	18.1	170.	195.	8.2	8.1	1.5	2.0
80-08-07	1300	3	12.0	19.2	165.	196.	8.2	8.1	2.0	.9
80-09-17	1330	3	8.0	22.0	166.	191.	8.1	8.1	2.0	1.5
80-10-22	1445	3	4.0	21.1	181.	205.	8.0	8.0	.8	.7
80-11-26	1530	3	1.5	20.6	190.	223.	8.2	8.0	3.0	15.0
80-12-10	1510	3	.5	21.3	190.	235.	8.0	8.2	3.0	2.2
81-01-21	1430	3	2.0	22.1	204.	244.	8.2	8.1	1.0	2.2
81-02-18	1515	3	.5	21.1	199.	248.	8.2	8.0	1.4	1.0
81-03-11	1330	3	3.0	16.7	216.	267.	8.2	8.2	1.4	1.0
81-04-09	0855	3	1.5	18.3	224.	265.	8.2	7.9	1.4	1.4
81-05-14	0830	3	5.5	14.7	193.	217.	8.1	8.0	6.0	2.6
81-06-03	1400	3	8.0	15.6	--	168.	7.9	8.0	16.0	6.7
81-07-03	1015	3	10.0	21.1	--	162.	8.0	8.0	6.0	1.8
81-08-19	1235	3	14.0	21.0	--	167.	8.0	8.6	1.6	.6
81-09-24	0715	3	4.0	22.7	185.	209.	8.0	8.1	--	1.0
81-10-21	1240	3	3.0	15.6	230.	230.	8.1	8.1	--	.7
81-11-18	1330	3	1.0	22.9	217.	199.	8.3	8.1	--	.5
81-12-17	1245	3	0.0	19.9	224.	214.	8.3	8.0	--	1.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-23	1645	3	5.	--	1.	--	--	L2.	L2.	--
80-02-20	1710	3	10.	--	1.	--	--	2.	L2.	--
80-03-20	1545	3	5.	--	10.	--	--	L2.	L2.	--
80-04-17	1100	3	5.	--	5.	--	L.001	L2.	L2.	--
80-05-15	0830	3	5.	--	4.	--	.001	--	L2.	--
80-06-11	1430	3	30.	--	45.	--	.005	--	26.	--
80-07-16	1445	3	5.	--	L1.	--	L.001	3.	L2.	--
80-08-07	1300	3	5.	--	3.	--	L.001	21.	12.	--
80-09-17	1330	3	10.	--	4.	--	L.001	21.	12.	--
80-10-22	1445	3	10.	--	2.	--	.001	L2.	L2.	--
80-11-26	1530	3	20.	--	2.	--	.001	L2.	L2.	--
80-12-10	1510	3	20.	--	4.	--	L.001	--	--	--
81-01-21	1430	3	5.	--	3.	--	L.001	L2.	L2.	--
81-02-18	1515	3	5.	--	1.	--	L.001	L2.	L2.	--
81-03-11	1330	3	10.	--	1.	--	L.001	L2.	L2.	--
81-04-09	0855	3	--	5.	1.	--	L.001	L2.	L2.	--
81-05-14	0830	3	--	5.	3.	--	L.001	L2.	L2.	--
81-06-03	1400	3	--	5.	18.	--	L.001	L2.	L2.	--
81-07-03	1015	3	--	5.	5.	--	.001	L2.	L2.	--
81-08-19	1235	3	--	5.	2.	--	L.001	L2.	L2.	--
81-09-24	0715	3	--	5.	2.	--	L.001	--	5.	--
81-10-21	1240	3	--	5.	1.	--	L.001	L2.	L2.	--
81-11-18	1330	3	--	10.	L1.	--	L.001	--	2.	--
81-12-17	1245	3	--	10.	2.	--	L.001	L1.	L1.	--

STATION - 00AL05AD0060
BELLY RIVER AT HWY 6, WATERTON LAKES NATIONAL PARK, ALBERTA
LAT. 49D 3M 6S LONG. 113D 41M 7S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-23	1645	3	12.3	--	0.0	--	--	27.80	11.9	118.4
80-02-20	1710	3	11.5	0.	0.0	93.	76.0 06L	28.00	13.5	125.5
80-03-20	1545	3	12.6	0.	0.0	112.	92.0 06L	25.00	12.3	113.1
80-04-17	1100	3	10.7	0.	0.0	171.	140.0	29.50	12.5	125.1
80-05-15	0930	3	10.9	0.	0.0	94.	77.0	19.90	8.1	83.0
80-06-11	1430	3	9.1	0.	0.0	89.	73.0	19.00	8.0	80.4
80-07-16	1445	3	9.6	0.	0.0	102.	84.0	21.30	8.7	89.0
80-08-07	1300	3	9.3	0.	0.0	109.	89.0	22.90	10.0	98.4
80-09-17	1330	3	9.6	0.	0.0	104.	85.0	22.50	10.5	99.4
80-10-22	1445	3	11.0	0.	0.0	111.	91.0	23.70	9.5	98.3
80-11-26	1530	3	12.0	0.	0.0	122.	100.0	26.80	11.3	113.4
80-12-10	1510	3	10.4	0.	0.0	128.	105.0	27.50	11.6	116.4
81-01-21	1430	3	11.6	0.	0.0	133.	109.0	24.10	9.5	99.3
81-02-18	1515	3	11.9	0.	0.0	134.	110.0	27.90	12.8	122.4
81-03-11	1330	3	12.2	0.	0.0	145.	119.0	31.80	12.9	132.5
81-04-09	0855	3	12.5	0.	0.0	148.	121.0	32.50	14.5	140.9
81-05-14	0830	3	10.9	0.	0.0	123.	101.0	26.50	10.5	109.4
81-06-03	1400	3	9.8	0.	0.0	99.	81.0	22.50	9.2	94.1
81-07-03	1015	3	9.8	0.	0.0	94.	77.0	19.80	8.0	82.4
81-08-19	1235	3	8.9	0.	.1	108.	89.0	21.70	7.7	85.9
81-09-24	0715	3	10.1	0.	0.0	120.	98.0	25.30	10.5	106.4
81-10-21	1240	3	12.0	0.	0.0	134.	110.0	28.40	12.3	121.6
81-11-18	1330	3	11.8	0.	0.0	116.	95.0	23.70	10.2	101.2
81-12-17	1245	3	13.0	0.	0.0	128.	105.0	28.20	11.5	117.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-23	1645	3	--	.9	.1	.3	L.05	7.	3.6	--
80-02-20	1710	3	101.	1.4	.3	.5	L.05	8.	3.5	--
80-03-20	1545	3	105.	1.4	.3	.4	.05	7.	3.5	--
80-04-17	1100	3	141.	1.5	.4	.4	.06	9.	3.8	--
80-05-15	0930	3	84.	.9	.2	.3	L.05	5.	3.4	--
80-06-11	1430	3	81.	.9	.2	.3	L.05	5.	3.4	--
80-07-16	1445	3	90.	1.0	.2	.2	L.05	5.	3.2	--
80-08-07	1300	3	98.	1.9	.2	1.2	.05	5.	3.3	--
80-09-17	1330	3	95.	1.0	.2	.2	L.05	6.	3.3	--
80-10-22	1445	3	96.	.7	.2	.2	.08	4.	3.2	--
80-11-26	1530	3	108.	1.3	.2	.3	L.05	5.	3.5	--
80-12-10	1510	3	114.	1.5	.2	.3	.07	6.	3.6	--
81-01-21	1430	3	113.	1.1	.3	.4	.07	8.	4.1	--
81-02-18	1515	3	120.	1.4	.3	.3	.06	7.	3.9	--
81-03-11	1330	3	132.	1.8	.3	.5	.09	9.	3.8	--
81-04-09	0855	3	Q136.	1.4	.4	L.1	L.05	10.	4.0	--
81-05-14	0830	3	111.	1.3	.3	.3	L.05	7.	4.1	--
81-06-03	1400	3	91.	1.1	.2	.2	L.05	5.	3.8	--
81-07-03	1015	3	83.	.8	.2	.4	L.05	4.	3.1	--
81-08-19	1235	3	91	.7	.2	.3	L.05	4.	3.0	--
81-09-24	0715	3	104	1.0	.2	.2	L.05	5.	3.4	--
81-10-21	1240	3	118	1.2	.2	.2	.05	7.	3.2	--
81-11-18	1330	3	101.	1.0	.2	.2	L.05	5.	3.4	--
81-12-17	1245	3	115.	1.2	.2	.3	L.05	7.	3.4	--

STATION - 00AL05AD0060 LAT. 49D 3M 6S LONG. 113D 41M 7S
BELLY RIVER AT HWY 6, WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-23	1645	3	L.003	L.003 03L	00.000	.41 10L	--	.38	.03	.41
80-02-20	1710	3	L.003	L.003 03L	00.000	.13 10L	--	.15	.02	.17
80-03-20	1545	3	.100	.005 03L	.095	.10 10L	--	.14	.02	.16
80-04-17	1100	3	.014	.003	.011	.10	.15	.14	L.01	Q.15
80-05-15	0930	3	.004	L.003	Q.001	.15	.15	.18	L.01	Q.19
80-06-11	1430	3	.033	.003	.030	.11	.15	.13	.13	.26
80-07-16	1445	3	.003	L.003	00.000	.12	.12	.12	.03	.15
80-08-07	1300	3	L.003	L.003	00.000	.11	.12	.12	.06	.18
80-09-17	1330	3	L.003	L.003	00.000	.07	.10	.10	.05	.15
80-10-22	1445	3	L.003	L.003	00.000	.08	.10	.17	.04	.21
80-11-26	1530	3	L.003	L.003	00.000	.10	.13	.14	L.01	Q.15
80-12-10	1510	3	.003	.003	0.000	.10	.11	.12	L.01	Q.13
81-01-21	1430	3	L.003	L.003	00.000	.12	.12	.12	L.01	Q.13
81-02-18	1515	3	.005	.005	0.000	.11	.15	.13	.05	.18
81-03-11	1330	3	L.003	L.003	00.000	.13	.14	.14	L.01	Q.15
81-04-09	0855	3	L.003	L.003	00.000	.09	.11	.13	L.01	Q.14
81-05-14	0830	3	.004	L.003	Q.001	.11	.14	.16	L.01	Q.17
81-06-03	1400	3	.019	L.003	Q.016	.12	.14	.14	.04	.18
81-07-03	1015	3	.010	.004	.006	.11	.13	.12	.02	.14
81-08-19	1235	3	L.003	--	--	.08	.10	.12	L.01	Q.13
81-09-24	0715	3	L.003	L.003	00.000	.08	12	.12	L.01	Q.13
81-10-21	1240	3	L.003	L.003	00.000	.09	.11	.10	L.01	Q.11
81-11-18	1330	3	.005	L.003	Q.002	.05	.09	.09	L.01	Q.10
81-12-17	1245	3	.003	L.003	00.000	.08	.09	.09	L.01	Q.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-23	1645	3	--	--	23.0	1.0	.05	1.1	--	--
80-02-20	1710	3	--	--	21.0	1.0	.05	1.1	--	--
80-03-20	1545	3	--	--	18.0	1.0	.07	1.1	--	--
80-04-17	1100	3	--	--	--	2.0	--	--	--	--
	1100	3	--	--	--	2.0 04D	--	--	--	--
80-05-15	0930	3	--	--	--	1.0 04D	--	--	--	--
80-06-11	1430	3	--	--	--	1.0 04D	1.40	2.4	--	--
80-07-16	1445	3	--	--	--	L1.0 04D	.40	Q1.4	--	--
80-08-07	1300	3	--	--	--	L1.0 04D	.17	Q1.2	--	--
80-09-17	1330	3	--	--	--	L1.0 04D	.28	Q1.3	--	--
80-10-22	1445	3	--	--	--	L1.0 04D	.19	Q1.2	--	--
80-11-26	1530	3	--	--	--	L1.0 04D	.22	Q1.2	--	--
80-12-10	1510	3	--	--	--	L1.0 04D	.20	Q1.2	--	--
81-01-21	1430	3	--	--	--	L1.0 04D	.09	Q1.1	--	--
81-02-18	1515	3	--	--	--	1.0 04D	.12	1.1	--	--
81-03-11	1330	3	--	--	--	L1.0 04D	.10	Q1.1	--	--
81-04-09	0855	3	L.1	--	--	--	.08	--	--	--
81-05-14	0830	3	L.1	--	--	1.2	.26	1.5	--	--
81-06-03	1400	3	L.1	--	--	1.1	.49	1.6	--	--
81-07-03	1015	3	L.1	--	--	.9	.23	1.1	--	--
81-08-19	1235	3	L.1	--	--	.5	.12	.6	--	--
81-09-24	0715	3	L.1	--	--	.2	.11	.3	--	--
81-10-21	1240	3	L.1	--	--	.6	.09	.7	--	--
81-11-18	1330	3	L.1	--	--	.8	.09	.9	--	--
81-12-17	1245	3	L.1	--	--	.8	.10	.9	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AD0060
BELLY RIVER AT HWY 6, WATERTON LAKES NATIONAL PARK, ALBERTA

LAT. 49D 3M 6S LONG. 113D 41M 7S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-23	1645	3	L.02	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-02-20	1710	3	.03	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-03-20	1545	3	L.02	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-04-17	1100	3	.03	L.0005	L.0005	--	.01	--	L.04	L.02
80-05-15	0830	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-11	1430	3	.03	L.0005	L.0005	--	L.01	--	L.04	.03
80-07-16	1445	3	.03	L.0005	L.0005	--	.01	--	L.04	.03
80-08-07	1300	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-17	1330	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-22	1445	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-26	1530	3	.04	L.0005	L.0005	--	.01	--	L.04	L.02
80-12-10	1510	3	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-21	1430	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-18	1515	3	.04	L.0005	L.0005	--	L.01	--	.04	L.02
81-03-11	1330	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-04-08	0855	3	.03	L.0005	L.0005	--	--	--	L.04	L.02
81-05-14	0830	3	.03	L.0005	.0018	--	L.01	--	L.04	L.02
81-06-03	1400	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-03	1015	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-08-19	1235	3	.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-24	0715	3	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-21	1240	3	.05 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-18	1330	3	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-17	1245	3	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AE0001 LAT. 48D 0M 10S LONG. 113D 18M 50S
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL), ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-23	1345	3	1.5	12.5	--	235.	7.8	7.9	1.0	.4
80-02-20	1440	3	0.0	22.5	--	257.	8.0	7.9	.8	1.8
80-03-20	1335	3	2.0	20.5	260.	325.	8.3	8.0	1.3	3.2
80-04-16	1545	3	7.0	23.1	250.	301.	8.2	8.0	38.0	37.0
80-05-14	1300	3	10.0	18.1	145.	157.	8.2	8.1	--	5.8
80-06-11	1200	3	11.0	19.3	180.	207.	--	8.2	46.0	32.0
80-07-16	1210	3	14.0	19.1	160.	191.	8.4	8.2	3.5	3.1
80-08-07	1040	3	13.0	20.5	160.	191.	8.0	8.2	2.0	1.5
80-09-17	1110	3	10.0	21.8	166.	192.	8.3	8.1	22.0	15.0
80-10-22	1130	3	4.0	21.0	180.	200.	8.3	8.2	2.0	1.9
80-11-26	1230	3	1.0	20.5	180.	207.	8.4	8.0	2.0	2.3
80-12-10	1230	3	0.0	21.0	165.	205.	8.3	8.2	3.0	1.7
81-01-21	1215	3	2.0	22.8	170.	207.	8.4	8.1	1.2	.8
81-02-18	1230	3	1.0	21.1	193.	237.	8.3	8.1	4.0	2.6
81-03-11	1120	3	2.0	16.8	272.	332.	8.5	8.4	2.0	2.0
81-04-08	0730	3	1.0	18.0	243.	297.	8.5	8.3	3.0	2.4
81-05-13	1230	3	8.5	21.2	211.	247.	8.4	8.3	11.0	5.0
81-06-03	1100	3	9.0	15.5	--	192.	8.2	8.2	25.0	13.0
81-07-03	0800	3	12.0	21.1	--	172.	7.9	8.2	14.0	6.4
81-08-19	1005	3	16.0	20.1	151.	178.	8.1	8.3	2.0	1.2
81-09-23	1215	3	8.0	22.5	287.	231.	8.2	8.3	--	1.2
81-10-21	1000	3	1.5	15.6	231.	242.	7.9	8.1	--	.8
81-11-17	1030	3	0.0	23.2	249.	229.	8.4	8.1	--	1.5
81-12-17	1000	3	0.0	19.8	247.	240.	8.2	8.0	--	1.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-23	1345	3	5.	--	2.	--	--	12.	L2.	--
80-02-20	1440	3	20.	--	1.	--	--	19.	12.	--
80-03-20	1335	3	30.	--	2.	--	--	L2.	L2	--
80-04-16	1545	3	30	--	59	--	L.001	--	8.	--
80-05-14	1300	3	10	--	12.	--	.002	--	48	--
80-06-11	1200	3	30	--	79.	--	L.001	--	13	--
80-07-16	1210	3	10.	--	3.	--	L.001	9.	7.	--
80-08-07	1040	3	10.	--	7.	--	L.001	13	10	--
80-09-17	1110	3	30	--	27.	--	.003	13.	10.	--
80-10-22	1130	3	10.	--	3.	--	.002	L2.	L2.	--
80-11-26	1230	3	20.	--	3.	--	.004	3.	3.	--
80-12-10	1230	3	20.	--	2.	--	L.001	--	--	--
81-01-21	1215	3	5.	--	1.	--	L.001	L2.	L2.	--
81-02-18	1230	3	20.	--	2.	--	L.001	3.	L2	--
81-03-11	1120	3	10.	--	L1.	--	L.001	15	7.	--
81-04-08	0730	3	--	10.	2.	--	.002	6.	3.	--
81-05-13	1230	3	--	5.	9.	--	L.001	9.	1.	--
81-06-03	1100	3	--	10.	24.	--	L.001	7.	7.	--
81-07-03	0800	3	--	10.	15.	--	.001	15.	10.	--
81-08-19	1005	3	--	5.	3.	--	L.001	--	13.	--
81-09-23	1215	3	--	10.	L1.	--	.001	--	4.	--
81-10-21	1000	3	--	10.	1.	--	.001	--	6.	--
81-11-17	1030	3	--	10.	1.	--	L.001	2.	2.	--
81-12-17	1000	3	--	10.	3.	--	L.001	--	36.	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AE0001
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL), ALBERTA   LAT. 49D 0M 10S LONG. 113D 18M 58S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-23	1345	3	12.8	--	0.0	--	--	28.80	10.0	113.1
80-02-20	1440	3	11.7	0.	0.0	91.	75.0 06L	29.80	11.6	122.2
80-03-20	1335	3	12.8	0.	0.0	130.	107.0 06L	33.00	13.2	136.8
80-04-16	1545	3	10.8	0.	0.0	146.	120.0	30.90	12.3	127.8
80-05-14	1300	3	9.9	0.	0.0	91.	75.0	21.60	7.7	85.6
80-06-11	1200	3	9.0	0.	0.0	109.	89.0	23.40	8.9	95.1
80-07-16	1210	3	9.5	0.	0.0	101.	83.0	22.00	7.6	86.2
80-08-07	1040	3	9.1	0.	0.0	106.	87.0	23.70	9.0	96.2
80-09-17	1110	3	9.3	0.	0.0	104.	85.0	22.50	8.9	92.8
80-10-22	1130	3	12.1	0.	0.0	116.	95.0	25.20	9.1	100.4
80-11-26	1230	3	12.6	0.	0.0	112.	92.0	24.80	8.9	98.6
80-12-10	1230	3	11.5	0.	0.0	113.	93.0	26.00	8.9	101.6
81-01-21	1215	3	12.1	0.	0.0	110.	90.0	24.20	8.3	94.6
81-02-18	1230	3	11.5	0.	0.0	124.	102.0	26.10	10.9	110.1
81-03-11	1120	3	13.0	4.	3.4	177.	152.0	37.80	14.7	154.9
81-04-09	0730	3	12.9	0.	0.0	165.	135.0	34.00	14.0	142.5
81-05-13	1230	3	10.9	0.	0.0	138.	113.0	29.80	12.4	125.5
81-06-03	1100	3	9.6	0.	0.0	106.	87.0	24.00	8.3	94.1
81-07-03	0800	3	9.3	0.	0.0	94.	77.0	20.90	4.4	70.3
81-08-19	1005	3	8.6	0.	0.0	104.	85.0	22.90	8.0	90.1
81-09-23	1215	3	10.2	0.	0.0	133.	109.0	27.70	10.4	112.0
81-10-21	1000	3	12.4	0.	0.0	134.	110.0	30.00	11.5	122.3
81-11-17	1030	3	12.4	0.	0.0	135.	111.0	28.60	10.6	115.1
81-12-17	1000	3	13.3	0.	0.0	145.	119.0	31.90	11.4	126.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-23	1345	3	--	1.5	.2	.4	L.05	7.	3.6	--
80-02-20	1440	3	98.	2.7	.4	.6	L.05	4.	3.8	--
80-03-20	1335	3	138.	6.2	1.6	1.0	.06	15.	4.2	--
80-04-16	1545	3	142.	6.1	1.8	.9	.06	12.	6.0	--
80-05-14	1300	3	85.	1.0	.2	.3	L.05	6.	3.1	--
80-06-11	1200	3	99	1.9	.3	.3	L.05	8.	3.2	--
80-07-16	1210	3	90.	1.5	.3	.4	L.05	5.	3.1	--
80-08-07	1040	3	96.	2.1	.3	.5	L.05	5.	2.9	--
80-09-17	1110	3	94.	1.8	.3	.3	L.05	6.	2.9	--
80-10-22	1130	3	103.	2.2	.5	.4	.06	6.	3.0	--
80-11-26	1230	3	101.	1.9	.4	.3	L.05	6.	3.0	--
80-12-10	1230	3	101.	2.0	.2	.3	.05	5.	3.1	--
81-01-21	1215	3	97.	1.5	.4	.3	.07	6.	2.8	--
81-02-18	1230	3	116.	3.8	1.3	.8	.07	8.	3.9	--
81-03-11	1120	3	170.	7.5	1.2	1.1	.10	12.	4.1	--
81-04-09	0730	3	149.	5.3	.5	.5	L.05	10.	3.7	--
81-05-13	1230	3	127.	3.9	.4	.4	L.05	9.	3.7	--
81-06-03	1100	3	96.	2.1	.3	.3	L.05	5.	3.4	--
81-07-03	0800	3	80.	1.3	.2	.4	L.05	4.	2.7	--
81-08-19	1005	3	91.	1.5	.2	.3	L.05	4.	2.7	--
81-09-23	1215	3	116.	2.4	.3	.4	L.05	6.	3.2	--
81-10-21	1000	3	121.	2.8	.3	.4	.05	7.	3.0	--
81-11-17	1030	3	121.	3.0	.6	.5	L.05	7.	3.4	--
81-12-17	1000	3	130.	2.9	.4	4	L.05	8.	3.4	--

STATION - 00AL05AE0001 LAT. 49D 0M 10S LONG. 113D 18M 50S
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL), ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-23	1345	3	L.003	L.003 03L	Q0.000	.09 10L	--	.52	.02	.54
80-02-20	1440	3	L.003	L.003 03L	Q0.000	.08 10L	--	.13	.02	.15
80-03-20	1335	3	.016	.016 03L	0.000	.10 10L	--	.33	.06	.39
80-04-16	1545	3	.081	.015	.066	.04	.32	.29	.37	.66
80-05-14	1300	3	.013	L.003	Q.010	.10	.14	.17	.07	.24
80-06-11	1200	3	.050	L.003	Q.047	.08	.13	.12	.14	.26
80-07-16	1210	3	.003	L.003	Q0.000	.09	.13	.13	.05	.18
80-08-07	1040	3	.004	.003	.001	.07	.09	.11	.04	.15
80-09-17	1110	3	.025	L.003	Q.022	.03	.09	.07	.11	.18
80-10-22	1130	3	L.003	L.003	Q0.000	.05	.12	.10	.03	.13
80-11-26	1230	3	.005	L.003	Q.002	.07	.10	.11	.05	.16
80-12-10	1230	3	.003	.003	0.000	.07	.11	.19	L.01	Q.20
81-01-21	1215	3	L.003	L.003	Q0.000	.09	.11	.10	.04	.14
81-02-18	1230	3	.022	.010	.012	.11	.33	.28	.11	.39
81-03-11	1120	3	L.003	L.003	Q0.000	.07	.15	.14	.04	.18
81-04-09	0730	3	L.003	L.003	Q0.000	.06	.13	.12	L.01	Q.13
81-05-13	1230	3	.003	L.003	Q0.000	.05	.13	.13	.04	.17
81-06-03	1100	3	.018	L.003	Q.015	.08	.13	.14	.06	.20
81-07-03	0800	3	.019	.012	.007	.09	.12	.12	L.01	Q.13
81-08-19	1005	3	L.003	L.003	Q0.000	.05	.10	.11	L.01	Q.12
81-09-23	1215	3	L.003	L.003	Q0.000	.03	.09	.08	L.01	Q.09
81-10-21	1000	3	L.003	L.003	Q0.000	.03	.07	.08	L.01	Q.09
81-11-17	1030	3	.005	L.003	Q.002	.06	.08	.08	L.01	Q.09
81-12-17	1000	3	.003	L.003	Q0.000	.05	.08	.08	L.01	Q.09

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-23	1345	3	--	--	22.0	1.0	.10	1.1	--	--
80-02-20	1440	3	--	--	20.0	1.0	.07	1.1	--	--
80-03-20	1335	3	--	--	23.0	4.0	.28	4.3	--	--
80-04-16	1545	3	--	--	--	4.0	--	--	--	--
	1545	3	--	--	--	4.0 04D	--	--	--	--
80-05-14	1300	3	--	--	--	2.0 04D	--	--	--	--
80-06-11	1200	3	--	--	--	1.0 04D	1.80	2.8	--	--
80-07-16	1210	3	--	--	--	1.0 04D	.32	1.3	--	--
80-08-07	1040	3	--	--	--	L1.0 04D	.17	Q1.2	--	--
80-09-17	1110	3	--	--	--	L1.0 04D	.82	Q1.8	--	--
80-10-22	1130	3	--	--	--	1.0 04D	.34	1.3	--	--
80-11-26	1230	3	--	--	--	L1.0 04D	.22	Q1.2	--	--
80-12-10	1230	3	--	--	--	L1.0 04D	.13	Q1.1	--	--
81-01-21	1215	3	--	--	--	1.0 04D	.12	1.1	--	--
81-02-18	1230	3	--	--	--	4.0 04D	.40	4.4	--	--
81-03-11	1120	3	--	--	--	2.0 04D	.17	2.2	--	--
81-04-09	0730	3	L.1	--	--	--	.19	--	--	--
81-05-13	1230	3	L.1	--	--	1.8	.34	2.1	--	--
81-06-03	1100	3	L.1	--	--	1.8	.68	2.5	--	--
81-07-03	0800	3	L.1	--	--	1.0	.28	1.3	--	--
81-08-19	1005	3	L.1	--	--	1.0	.18	1.2	--	--
81-09-23	1215	3	L.1	--	--	.6	.10	.7	--	--
81-10-21	1000	3	L.1	--	--	.9	.10	1.0	--	--
81-11-17	1030	3	L.1	--	--	1.4	.14	1.5	--	--
81-12-17	1000	3	L.1	--	--	1.2	.10	1.3	--	--

STATION - 00AL05AE0001 LAT. 49D 0M 10S LONG. 113D 18M 50S
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL). ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-23	1345	3	L.02	L.0005 04L	L.0005 02L	L.01	--	L.04	--	L.02
80-02-20	1440	3	.03	L.0005 04L	L.0005 02L	L.01	--	.04	--	L.02
80-03-20	1335	3	.04	L.0005 04L	L.0005 02L	L.01	--	.12	--	L.02
80-04-16	1545	3	.06	L.0005	L.0005	--	.02	--	.07	.02
80-05-14	1300	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-11	1200	3	.03	L.0005	L.0005	--	L.01	--	L.04	.03
80-07-16	1210	3	.03	L.0005	L.0005	--	L.01	--	L.04	.05
80-08-07	1040	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-17	1110	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-22	1130	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-26	1230	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-10	1230	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-21	1215	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-18	1230	3	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-11	1120	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-04-08	0730	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-13	1230	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-06-03	1100	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-03	0800	3	.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-08-19	1005	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-23	1215	3	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-21	1000	3	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-17	1030	3	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-17	1000	3	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-23	1345	3	L.001	--	--	.004	--	--	--	--
80-02-20	1440	3	L.001	--	--	L.002	--	--	--	--
80-03-20	1335	3	L.001	--	--	L.002	--	--	--	--
80-04-16	1545	3	--	L.001	--	--	L.002	--	.007	--
80-05-14	1300	3	--	.002	--	--	.007	--	L.002	--
80-06-11	1200	3	--	L.001	--	--	.002	--	.005	--
80-07-16	1210	3	--	L.001	--	--	L.002	--	L.002	--
80-08-07	1040	3	--	L.001	--	--	L.002	--	L.002	--
80-09-17	1110	3	--	.001	--	--	L.002	--	L.002	--
80-10-22	1130	3	--	L.001	--	--	L.002	--	.003	--
80-11-26	1230	3	--	L.001	--	--	L.002	--	L.002	--
80-12-10	1230	3	--	L.001	--	--	L.002	--	L.002	--
81-01-21	1215	3	--	L.001	--	--	.002	--	.007	--
81-02-18	1230	3	--	L.001	--	--	.003	--	.004	--
81-03-11	1120	3	--	.001	--	--	L.002	--	L.002	--
81-04-08	0730	3	--	L.001	--	--	L.002	--	--	--
81-05-13	1230	3	--	L.001	--	--	.002	--	--	--
81-06-03	1100	3	--	.001	--	--	.002	--	--	--
81-07-03	0800	3	--	L.001	--	--	.004	--	.003	--
81-08-19	1005	3	--	L.001	--	--	L.002	--	L.002	--
81-09-23	1215	3	--	L.001	--	--	L.002	--	L.002	--
81-10-21	1000	3	--	L.001	--	--	L.002	--	L.002	--
81-11-17	1030	3	--	L.001	--	--	L.002	--	.003	--
81-12-17	1000	3	--	L.001	--	--	L.002	--	.003	--

STATION - 00AL05AE0001 LAT. 49D 0M 10S LONG. 113D 18M 50S
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL), ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-23	1345	3	L.001	--	L.001	--	--	--	L.001	--
80-02-20	1440	3	L.001	--	L.001	--	--	--	L.001	--
80-03-20	1335	3	L.001	--	L.001	--	--	--	L.001	--
80-04-16	1545	3	--	.003	--	.006	--	--	--	L.001
80-05-14	1300	3	--	.001	--	--	--	--	--	L.001
80-06-11	1200	3	--	.004	--	.011	--	--	--	L.001
80-07-16	1210	3	--	.001	--	.003	--	--	--	L.001
80-08-07	1040	3	--	.001	--	.002	--	--	--	L.001
80-09-17	1110	3	--	.001	--	.012	--	--	--	L.001
80-10-22	1130	3	--	L.001	--	.001	--	--	--	L.001
80-11-26	1230	3	--	L.001	--	L.001	--	--	--	L.001
80-12-10	1230	3	--	L.001	--	.003	--	--	--	L.001
81-01-21	1215	3	--	L.001	--	L.001	--	--	--	L.001
81-02-18	1230	3	--	.001	--	L.001	--	--	--	L.001
81-03-11	1120	3	--	L.001	--	.003	--	--	--	L.001
81-04-08	0730	3	--	.003	--	--	--	--	--	L.001
81-05-13	1230	3	--	.004	--	--	--	--	--	L.001
81-06-03	1100	3	--	.001	--	.003	--	--	--	L.001
81-07-03	0800	3	--	L.001	--	.009	--	--	--	L.001
81-08-19	1005	3	--	.006	--	L.001	--	--	--	L.001
81-09-23	1215	3	--	.001	--	.001	--	--	--	L.001
81-10-21	1000	3	--	.002	--	.010	--	--	--	L.001
81-11-17	1030	3	--	L.001	--	.002	--	--	--	L.001
81-12-17	1000	3	--	L.001	--	.001	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-23	1345	3	.12	--	L.004	--	.002	L.001	--	--
80-02-20	1440	3	.13	--	L.004	--	.002	.001	--	--
80-03-20	1335	3	.15	--	L.004	--	.002	.001	--	--
80-04-16	1545	3	--	.07	--	L.004	.003	.003	--	--
80-05-14	1300	3	--	.09	--	L.004	.002	L.001	--	--
80-06-11	1200	3	--	.14	--	L.004	.002	L.001	--	--
80-07-16	1210	3	--	.10	--	L.004	.001	.019	--	---
80-08-07	1040	3	--	.05	--	L.004	--	.002	--	--
80-09-17	1110	3	--	.10	--	L.004	.002	--	--	--
80-10-22	1130	3	--	.12	--	L.004	.001	L.001	--	--
80-11-26	1230	3	--	.11	--	L.004	.002	L.001	--	--
80-12-10	1230	3	--	--	--	.011	.001	L.001	--	--
81-01-21	1215	3	--	.07	--	.026	.001	L.001	--	--
81-02-18	1230	3	--	.12	--	L.004	.003	.001	--	--
81-03-11	1120	3	--	L.05	--	L.004	.002	L.001	--	--
81-04-08	0730	3	--	.19	--	L.004	.001	.003	--	--
81-05-13	1230	3	--	.12	--	L.004	.002	L.001	--	--
81-06-03	1100	3	--	.10	--	L.004	.002	L.001	--	--
81-07-03	0800	3	--	.10	--	.004	.002	L.001	--	--
81-08-19	1005	3	--	.10	--	L.004	.003	.002	--	--
81-09-23	1215	3	--	.13	--	L.004	.001	L.001	--	--
81-10-21	1000	3	--	.12	--	L.004	L.001	L.001	--	--
81-11-17	1030	3	--	.15	--	L.004	L.001	L.001	--	--
81-12-17	1000	3	--	.14	--	L.004	.002	L.001	--	--

STATION - 00AL05AE0001
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL), ALBERTA
LAT. 49D 0M 10S LONG. 113D 18M 50S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-23	1345	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-02-20	1440	3	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-03-20	1335	3	--	--	L.001	L.001	.002	L.001	L.002	L.001
80-04-16	1545	3	--	--	L.001	L.001	.005	L.001	L.002	L.001
80-05-14	1300	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-06-11	1200	3	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-07-16	1210	3	--	--	L.001	L.001	.006	L.001	L.002	L.001
80-08-07	1040	3	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-09-17	1110	3	--	--	L.001	L.001	.005	L.001	L.002	L.001
80-10-22	1130	3	--	--	L.001	L.001	.006	L.001	L.002	L.001
80-11-26	1230	3	--	--	L.001	L.001	.006	L.001	L.002	L.001
80-12-10	1230	3	--	--	L.001	L.001	.007	L.001	L.002	L.001
81-01-21	1215	3	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-02-18	1230	3	--	--	L.001	L.001	.007	L.001	L.002	L.001
81-03-11	1120	3	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-04-09	0730	3	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-05-13	1230	3	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-06-03	1100	3	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-07-03	0800	3	--	--	L.001	L.001	.006	L.001	L.002	L.001
81-08-19	1005	3	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-09-23	1215	3	--	--	L.001	L.001	.007	L.001	L.002	L.001
81-10-21	1000	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-11-17	1030	3	--	--	L.001	L.001	.007	L.001	L.002	L.001
81-12-17	1000	3	--	--	L.001	L.001	.005	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-23	1345	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-02-20	1440	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-03-20	1335	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-04-16	1545	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-14	1300	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-06-11	1200	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-07-16	1210	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-07	1040	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-09-17	1110	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-22	1130	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-11-26	1230	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-12-10	1230	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-21	1215	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-02-18	1230	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-03-11	1120	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-04-09	0730	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-13	1230	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-06-03	1100	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-07-03	0800	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-19	1005	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-09-23	1215	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-21	1000	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-11-17	1030	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-12-17	1000	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AE0001 LAT. 49D 0M 10S LONG. 113D 18M 50S
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL), ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA- (CIS) CHLORDANE UG/L	18065L GAMMA- (TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-23	1345	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-02-20	1440	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-03-20	1335	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-04-16	1545	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-14	1300	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-06-11	1200	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-07-16	1210	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-07	1040	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-09-17	1110	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-22	1130	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-11-26	1230	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-12-10	1230	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-21	1215	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-02-18	1230	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-03-11	1120	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-04-09	0730	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-13	1230	3	L.002	L.001	L.003	L.002	--	--	--	--
81-06-03	1100	3	L.002	L.001	L.003	L 002	L.2	.004	L.009	L.004
81-07-03	0800	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-19	1005	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-09-23	1215	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-21	1000	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-11-17	1030	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-12-17	1000	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-23	1345	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-02-20	1440	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-03-20	1335	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-04-16	1545	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-14	1300	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-06-11	1200	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-07-16	1210	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-07	1040	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-09-17	1110	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-22	1130	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-11-26	1230	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
80-12-10	1230	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-01-21	1215	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-02-18	1230	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-03-11	1120	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-04-09	0730	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-05-13	1230	3	--	--	L.2	L.002	L.002	--	L.005	L.002
81-06-03	1100	3	.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-03	0800	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-19	1005	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-09-23	1215	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-10-21	1000	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-11-17	1030	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-12-17	1000	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AG0001 LAT. 49D 57M 38S LONG. 112D 5M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-21	1400	479	1.0	21.8	505.	638.	8.1	7.8	.7	3.5
80-02-18	1410	479	.5	21.4	--	577.	8.0	7.7	.9	2.7
80-03-17	1445	479	1.5	17.4	460.	544.	8.2	7.9	3.8	5.9
80-04-14	1600	479	14.0	20.4	470.	535.	8.9	8.7	8.4	13.0
80-05-12	1310	479	15.0	16.2 61R	250.	280. 41R	8.2	8.2 01R	86.0	56.0 73R
80-06-09	1400	479	17.0	23.0	250.	284.	--	8.4	68.0	46.0
80-07-14	1300	479	20.0	21.0	330.	378.	8.8	8.7	8.0	5.0
80-08-05	1240	479	16.0	20.9	590.	444.	8.7	8.6	12.0	10.0
80-09-15	1210	479	11.0	20.6	348.	425.	8.7	8.6	8.0	5.8
80-10-20	1230	479	8.0	19.4	374.	435.	8.7	8.6	6.0	4.4
80-11-25	1340	479	1.5	20.2	330.	399.	8.7	8.3	11.0	8.5
80-12-08	1315	479	0.0	21.8	425.	521.	8.1	8.0	2.0	1.7
81-01-19	1315	479	1.5	18.9	329.	409.	8.4	8.1	7.0	4.2
81-02-16	1330	479	.5	19.7	406.	521.	8.2	7.9	4.0	3.4
81-03-09	1330	479	4.0	21.2	386.	457.	8.7	8.6	9.0	6.9
81-04-07	1100	479	5.5	22.0	466.	530.	8.6	8.4	6.0	3.6
81-05-11	1215	479	10.0	17.3	298.	339.	8.3	8.2	G200.0	220.0
81-06-01	1530	479	15.0	18.7	238.	283.	8.2	8.2	G200.0	140.0
81-07-01	1200	479	18.0	20.1	--	298.	8.5	8.5	58.0	29.0
81-08-17	1145	479	22.0	24.0	348.	376.	8.6	8.6	8.0	4.3
81-09-21	1115	479	13.0	18.3	373.	424.	8.4	8.5	--	4.4
81-10-19	1115	479	8.0	15.6	496.	503.	8.7	8.5	--	5.5
81-11-16	1200	479	3.0	18.8	456.	441.	8.7	8.5	--	5.0
81-12-15	1310	479	0.0	21.3	589.	537.	8.3	8.1	--	2.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-21	1400	479	5.	--	6.	--	--	--	73.	48.
80-02-18	1410	479	20.	--	2.	--	--	--	200.	38.
80-03-17	1445	479	30.	--	6.	--	--	3600.	580.	7.
80-04-14	1600	479	20.	--	15.	--	.012	3.	L2.	L3.
80-05-12	1310	479	60. 11R	--	109. 01R	--	.011 17T	--	160. 12U	160. 03U
80-06-09	1400	479	50.	--	105.	--	.004	--	15.	219.
80-07-14	1300	479	20.	--	7.	--	.004	--	8.	25.
80-08-05	1240	479	30.	--	16.	--	.008	--	38.	--
80-09-15	1210	479	20.	--	7.	--	.008	--	38.	680.
80-10-20	1230	479	30.	--	6.	--	.003	--	18.	27.
80-11-25	1340	479	30.	--	L1.	--	.020	L2.	L2.	G100.
80-12-08	1315	479	20.	--	1.	--	.003	66.	22.	G120.
81-01-19	1315	479	5.	--	8.	--	L.001	--	8.	680.
81-02-16	1330	479	10.	--	5.	--	.005	680.	L2.	8400.
81-03-09	1330	479	20.	--	6.	--	L.001	32.	L2.	22.
81-04-07	1100	479	--	20.	7.	--	.007	L2.	L2.	5.
81-05-11	1215	479	--	10.	579.	--	.020	1900.	430.	370.
81-06-01	1530	479	--	10.	379.	--	.004	250.	130.	70.
81-07-01	1200	479	--	10.	65. 01R	--	.009 17T	20. 02U	L2. 12U	8. 03U
81-08-17	1145	479	--	10.	7.	--	.006	--	45.	70.
81-09-21	1115	479	--	20.	5.	--	.004	40.	20.	25.
81-10-19	1115	479	--	10.	6.	--	.008	--	5.	10.
81-11-16	1200	479	--	20.	8.	--	.010	10.	2.	2.
81-12-15	1310	479	--	10.	1.	--	.002	6.	2.	8.

STATION - 00AL05AG0001
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA

LAT. 49D 57M 38S LONG. 112D 5M 35

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101N OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-21	1400	479	13.8	0.	0.0	213.	175.0 06L	67.00	25.3	271.5
80-02-18	1410	479	9.5	0.	0.0	195.	160.0 06L	54.80	20.8	222.5
80-03-17	1445	479	11.0	0.	0.0	166.	136.0 06L	47.00	20.5	201.8
80-04-14	1600	479	11.2	9.	7.1	190.	170.0	45.00	19.6	193.1
80-05-12	1310	479	9.8	0.	0.0 51R	139.	114.0 01R	33.50 03R	10.7 02R	127.7
80-06-09	1400	479	8.7	4.	3.4	126.	110.0	32.20	11.1	126.1
80-07-14	1300	479	9.8	11.	8.9	131.	125.0	35.00	14.5	147.1
80-08-05	1240	479	9.8	2.	1.3	154.	129.0	37.80	18.8	171.8
80-09-15	1210	479	10.0	3.	2.1	153.	130.0	35.50	17.8	161.9
80-10-20	1230	479	10.5	5.	4.1	164.	143.0	41.30	16.4	170.6
80-11-25	1340	479	13.7	0.	0.0	176.	144.0	44.00	16.2	176.6
80-12-08	1315	479	9.0	0.	0.0	226.	185.0	49.20	19.9	204.8
81-01-19	1315	479	12.6	0.	0.0	183.	150.0	43.70	15.5	172.9
81-02-16	1330	479	10.2	0	0.0	205.	168.0	51.90	19.2	208.6
81-03-09	1330	479	12.7	3.	2.5	183.	155.0	46.00	16.9	184.4
81-04-07	1100	479	11.4	0.	0.0	211.	173.0	51.50	19.6	209.3
81-05-11	1215	479	10.0	0.	0.0	162.	133.0	39.50	14.2	157.1
81-06-01	1530	479	8.6	0.	0.0	146.	120.0	34.50	11.3	132.7
81-07-01	1200	479	8.9	1.	.9	153.	127.0	32.10	12.4	131.2
81-08-17	1145	479	9.2	5.	3.8	150.	131.0	35.70	16.3	156.3
81-09-21	1115	479	9.3	2.	2.0	161.	136.0	34.80	18.9	164.7
81-10-19	1115	479	10.8	1.	1.0	187.	155.0	43.00	20.7	192.6
81-11-16	1200	479	12.9	0.	.2	189.	155.0	45.90	18.3	190.0
81-12-15	1310	479	12.6	0.	0.0	246.	202.0	60.30	22.8	244.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-21	1400	479	311.	19.0	1.6	12.0	.13	80.	1.3	--
80-02-18	1410	479	283.	26.0	1.9	11.0	.12	72.	.5	--
80-03-17	1445	479	260.	24.0	3.0	6.2	.17	75.	2.6	--
80-04-14	1600	479	293.	31.0	2.6	7.4	.12	85.	1	--
80-05-12	1310	479	146.	4.7 03R	.7 03R	1.2 06R	.10 05R	23. 06R	3.5 05R	--
80-06-09	1400	479	141.	6.3	.9	1.0	.08	20.	3.8	--
80-07-14	1300	479	191.	16.0	1.3	4.6	.13	44	.6	--
80-08-05	1240	479	231.	22.0	2.1	7.9	.14	64	.5	--
80-09-15	1210	479	224.	21.0	1.7	5.9	.13	63	.6	--
80-10-20	1230	479	227.	19.0	1.4	6.7	.15	56.	.2	--
80-11-25	1340	479	208.	13.0	1.1	4.7	.13	42	1.0	--
80-12-08	1315	479	258.	17.0	1.4	4.0	.09	55.	.6	--
81-01-19	1315	479	207.	12.0	1.2	5.3	.11	36.	3.3	--
81-02-16	1330	479	272.	23.0	2.0	8.4	.16	65.	1.6	--
81-03-09	1330	479	239.	19.0	1.7	4.5	.15	58.	.2	--
81-04-07	1100	479	285.	28.0	2.0	6.1	L.05	74	.4	--
81-05-11	1215	479	184.	10.0	1.1	1.7	.10	33.	4.3	--
81-06-01	1530	479	151.	6.4	1.2	.9	.08	20	5.1	--
81-07-01	1200	479	153.	6.8	.8	1.3	.11	20.	3.5	--
81-08-17	1145	479	199.	16.0	1.6	5.0	.12	42.	.4	--
81-09-21	1115	479	228.	23.0	1.9	5.5	.14	62.	.4	--
81-10-15	1115	479	0279.	32.0	2.2	9.9	.15	78.	L.1	--
81-11-16	1200	479	241.	21.0	1.6	5.5	.09	56.	.1	--
81-12-15	1310	479	324.	29.0	1.9	7.7	.15	80	.8	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AG0001 LAT. 49D 57M 38S LONG. 112D 5M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-21	1400	479	.200	.180 03L	.020	.58 10L	--	1.10	L.01	Q1.11
80-02-18	1410	479	[illegible]	.170 03L	.020	.44 10L	--	.86	.08	.94
80-03-17	1445	479	.130	.110 03L	.020	--	--	.80	.13	.93
80-04-14	1600	479	.150	.100	.050	.02	.25	.28	L.01	Q.29
80-05-12	1310	479	.110 06R	.021 03V	.089	.13 10V	.17 51V	.17 51R	.34 02R	.51
80-06-09	1400	479	.092	.010	.082	.07	.15	.15	.27	.42
80-07-14	1300	479	.038	.026	.012	L.01	.15	.15	.11	.26
80-08-05	1240	479	.071	.044	.027	L.01	.24	.24	.16	.40
80-09-15	1210	479	.050	.031	.019	L.01	.22	.20	.16	.36
80-10-20	1230	479	.039	.024	.015	L.01	.15	.16	.08	.24
80-11-25	1340	479	.038	.010	.028	.12	.23	.22	.21	.43
80-12-08	1315	479	.015	.006	.009	.26	.56	.55	.06	.61
81-01-19	1315	479	.074	.069	.005	.15	.32	.35	.17	.52
81-02-16	1330	479	.070	.051	.019	.25	.48	.50	.11	.61
81-03-09	1330	479	.072	.040	.032	.06	.21	.15	.14	.29
81-04-07	1100	479	.085	047	.038	L.01	.23	.19	.18	.37
81-05-11	1215	479	.460	.011	.449	.17	.26	.25	1.00	1.25
81-06-01	1530	479	.290	.008	282	.12	.23	.24	.45	.69
81-07-01	1200	479	.045 06R	004 03V	.041	L.01 10V	.10 51V	.10 51R	.13 02R	.23
81-08-17	1145	479	.020	.010	010	.01	.19	.18	.09	.27
81-09-21	1115	479	.037	022	015	L 01	.20	.21	--	--
81-10-19	1115	479	.078	055	.023	02	.19	.19	.08	.27
81-11-16	1200	479	.099	.057	.042	.03	.16	.15	.11	.26
81-12-15	1310	479	.063	055	.008	.25	45	.44	L.01	Q.45

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-21	1400	479	4	--	43.0	3.0	.33	3.3	.009	.02 05P
80-02-18	1410	479	3	--	31.0	2.0	.40	2.4	--	--
80-03-17	1445	479	.2	--	30.0	4.0	.60	4.6	--	--
80-04-14	1600	479	L.1	--	--	3.0 04D	--	--	--	--
80-05-12	1310	479	L.1 06M	--	--	2.0 04V	--	--	--	--
80-06-09	1400	479	L.1	--	--	2.0 04D	2.70	4.7	--	--
80-07-14	1300	479	L.1	--	--	2.0 04D	.52	2.5	--	--
80-08-05	1240	479	L.1	--	--	3.0 04D	1.10	4.1	--	--
80-09-15	1210	479	L.1	--	--	3.0 04D	.70	3.7	--	--
80-10-20	1230	479	L.1	--	--	2.0 04D	.48	2.5	--	--
80-11-25	1340	479	L.1	--	--	2.0 04D	1.00	3.0	--	--
80-12-08	1315	479	2	--	--	2.0 04D	.26	2.3	--	--
81-01-19	1315	479	2	--	--	2.0 04D	.55	2.6	--	--
81-02-16	1330	479	.1	--	--	4.0 04D	.56	4.6	--	--
81-03-09	1330	479	L.1	--	--	2.0 04D	.74	2.7	--	--
81-04-07	1100	479	L.1	--	--	3.4	.78	4.2	--	--
81-05-11	1215	479	.1	--	--	2.7	10.90	13.6	--	--
81-06-01	1530	479	L.1	--	--	3.2	7.50	10.7	--	--
81-07-01	1200	479	L.1 06M	--	--	2.4 04R	1.20 02R	3.6	--	--
81-08-17	1145	479	L.1	--	--	2.4	.46	2.9	--	--
81-09-21	1115	479	L.1	--	--	.2.1	--	--	--	--
81-10-19	1115	479	L.1	--	--	2.5	.49	3.0	--	--
81-11-16	1200	479	L.1	--	--	2.2	.67	2.9	--	--
81-12-15	1310	479	L.1	--	--	2.4	.18	2.6	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AG0001 LAT. 49D 57M 28S LONG. 112D 5M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-21	1400	479	.07	L.0005 04L	.0010 02L	.01	--	.07	--	L.02
80-02-18	1410	479	--	--	--	--	--	--	--	L.02
80-03-17	1445	479	--	--	--	--	--	--	--	L.02
80-04-14	1800	479	.04	.0007	.0005	--	.02	--	L.04	L.02
80-05-12	1310	479	.06 05R	.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11H
80-06-09	1400	479	.06	L.0005	L.0005	--	L.01	--	L.04	.02
80-07-14	1300	479	L.02	.0006	L.0005	--	L.01	--	L.04	.07
80-08-05	1240	479	.04	.0011	.0007	--	L.01	--	.04	L.02
80-09-15	1210	479	.03	.0011	.0005	--	L.01	--	L.04	L.02
80-10-20	1230	479	L.02	.0005	.0005	--	L.01	--	L.04	L.02
80-11-25	1340	479	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-08	1315	479	.04	L.0005	L.0005	--	.01	--	.04	L.02
81-01-19	1315	479	.08	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-16	1330	479	.04	.0005	.0007	--	L.01	--	L.04	L.02
81-03-09	1330	479	L.02	L.0005	.0006	--	.01	--	L.04	L.02
81-04-07	1100	479	L.02	.0005	L.0005	--	.02	--	L.04	L.02
81-05-11	1215	479	.04	.0006	.0005	--	L.01	--	L.04	.02
81-06-01	1530	479	.06	L.0005	L.0005	--	L.01	--	L.04	.03
81-07-01	1200	479	.03 05R	L.0005 04V	.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11H
81-08-17	1145	479	.03	.0007	.0005	--	L.01	--	L.04	L.02
81-09-21	1115	479	.04 05D	.0008	L.0005	--	L.01	--	L.04	L.02
81-10-19	1115	479	.06 05D	.0007	.0008	--	L.01	--	L.04	L.02
81-11-16	1200	479	.03 05D	.0005	.0005	--	L.01	--	.04	L.02
81-12-15	1310	479	.07 05D	.0005	.0014	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-21	1400	479	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-12	1310	479	--	.005 20H	--	--	.005 20H	--	.014 20H	L.004 01H
80-08-05	1240	479	--	.003	--	--	L.002	--	.002	L.004
80-10-20	1230	479	--	L.001	--	--	L.002	--	.004	L.004
81-01-19	1315	479	--	.004	--	--	.003	--	.012	L.004
81-05-11	1215	479	--	.006	--	--	.007	--	--	L.004
81-08-17	1145	479	--	L.001	--	--	L.002	--	.005	L.004
81-10-19	1115	479	--	.001	--	--	L.002	--	L.002	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-21	1400	479	.003	--	L.001	--	.34	L.10	L.001	--
80-05-12	1310	479	--	.004 20H	--	.019 20H	--	--	--	.001 20H
80-08-05	1240	479	--	.001	--	.002	--	--	--	L.001
80-10-20	1230	479	--	L.001	--	.002	--	--	--	L.001
81-01-19	1315	479	--	L.001	--	.003	--	--	--	.002
81-05-11	1215	479	--	.027	--	--	--	--	--	L.001
81-08-17	1145	479	--	L.001	--	.005	--	--	--	L.001
81-10-19	1115	479	--	.003	--	.007	--	--	--	L.001

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AG0001 LAT. 49D 57M 38S LONG. 112D 8M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-21	1400	479	.13	--	L.004	--	--	.001	--	--
80-02-18	1410	479	--	--	--	--	--	L.001	--	--
80-03-17	1445	479	--	--	--	--	--	.001	--	--
80-04-14	1600	479	--	--	--	--	--	.003	--	--
80-05-12	1310	479	--	.08 20H	--	.004 20H	--	.002 35H	--	--
80-06-09	1400	479	--	--	--	--	--	L.001	--	--
80-07-14	1300	479	--	--	--	--	--	L.001	--	--
80-08-05	1240	479	--	.08	--	L.004	--	.002	--	--
80-09-15	1210	479	--	--	--	--	--	.001	--	--
80-10-20	1230	479	--	.06	--	L.004	--	L.001	--	--
80-11-25	1340	479	--	--	--	--	--	L.001	--	--
80-12-08	1315	479	--	--	--	--	--	L.001	--	--
81-01-19	1315	479	--	L.05	--	.004	--	.002	--	--
81-02-16	1330	479	--	--	--	--	--	L.001	--	--
81-03-09	1330	479	--	--	--	--	--	L.001	--	--
81-04-07	1100	479	--	--	--	--	--	L.001	--	--
81-05-11	1215	479	--	.18	--	.006	--	L.001	--	--
81-06-01	1530	479	--	--	--	--	--	.001	--	--
81-07-01	1200	479	--	--	--	--	--	L.001 35H	--	--
81-08-17	1145	479	--	.12	--	L.004	--	.002	--	--
81-09-21	1115	479	--	--	--	--	--	.002	--	--
81-10-19	1115	479	--	.09	--	L.004	--	L.001	--	--
81-11-16	1200	479	--	--	--	--	--	L.001	--	--
81-12-15	1310	479	--	--	--	--	--	L.001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-21	1400	479	--	--	L.001	L.001	.001	.001	L.002	L.001
80-05-12	1310	479	--	--	L.001	L.001	.002	L.001	L.002	L.001
80-08-05	1240	479	--	--	L.001	L.001	.010	.002	L.002	L.001
80-10-20	1230	479	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-01-19	1315	479	--	--	L.001	L.001	.007	L.001	L.002	L.001
81-05-11	1215	479	--	--	L.001	L.001	.004	.006	L.002	L.001
81-08-17	1145	479	--	--	L.001	L.001	.009	.001	L.002	L.001
81-10-19	1115	479	--	--	L.001	L.001	.010	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-21	1400	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-12	1310	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-05	1240	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-20	1230	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-19	1315	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-11	1215	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-17	1145	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-19	1115	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

STATION - 00AL05AG0001 LAT. 49D 57M 38S LONG. 112D 8M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-21	1400	479	L .002	L .001	L .003	L .002	L .2	.030	L .009	L .004
80-05-12	1310	479	L .002	L .001	L .003	L .002	L .2	.030	L .009	L .004
80-08-05	1240	479	L .002	L .001	L .003	L .002	L .2	.300	L .009	L .004
80-10-20	1230	479	L .002	L .001	L .003	L .002	L .2	.030	L .009	L .004
81-01-19	1315	479	L .002	L .001	L .003	L .002	L .2	.020	L .009	L .004
81-05-11	1215	479	L .002	L .001	L .003	L .002	L .2	.100	L .009	L .004
81-08-17	1145	479	L .002	L .001	L .003	L .002	L .2	.100	L .009	L .004
81-10-19	1115	479	L .002	L .001	L .003	L .002	L .2	.030	L .009	L .004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-21	1400	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
80-05-12	1310	479	L .002	L .004	L .2 01W	--	L .002	L .002	L .005	L .020
80-08-05	1240	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
80-10-20	1230	479	L .002	L .004	L .2	-	L .002	L .002	L .005	--
81-01-19	1315	479	L .002	L .004	L .2	--	L .002	L .002	L .005	--
81-05-11	1215	479	L .002	L .004	--	L .002	L .002	--	L .005	L .002
81-08-17	1145	479	L .002	L .004	--	L .002	L .002	--	L .005	L .002
81-10-19	1115	479	L .002	L .004	--	L .002	L .002	--	L .005	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-21	1400	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
80-05-12	1310	479	L .5 90W	L .2 95W	L .2 05W	L .02 15W	L .20 30W	L .02 40W	L .02 45W	L .05 50W
80-08-05	1240	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
80-10-20	1230	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-01-19	1315	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-05-11	1215	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-08-17	1145	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-10-19	1115	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-21	1400	479	L .02	L .02	L .02	L .02	L .02
80-05-12	1310	479	L .02 60W	L .02 70W	L .02 00W	L .02 10W	L .02 20W
80-08-05	1240	479	L .02	L .02	L .02	L .02	L .02
80-10-20	1230	479	L .02	L .02	L .02	L .02	L .02
81-01-19	1315	479	L .02	L .02	L .02	L .02	L .02
81-05-11	1215	479	L .02	L .02	L .02	L .02	L .02
81-08-17	1145	479	L .02	L .02	L .02	L .02	L .02
81-10-19	1115	479	L .02	L .02	L .02	L .02	L .02

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AK0001 LAT. 500 44M 15S LONG. 1100 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-15	1045	462	.5	11.1	526.	578.	7.5	8.0	1.3	1.6
80-02-19	1140	462	0.0	17.6	472.	524.	7.6	8.2	1.5	2.6
80-03-18	1205	462	2.0	20.0	456.	506.	7.1	7.7	6.1	7.2
80-04-15	0820	462	8.0	22.0	373.	419.	8.3	8.0	36.0	40.0
80-05-21	0715	462	18.5	20.0 61R	327.	382. 41R	8.6	8.6 01R	12.0	14.0 73R
80-06-10	0830	462	15.0	20.6	302.	316.	--	7.9	100.0	95.0
80-07-29	0850	462	21.0	21.5	383.	428.	8.6	8.9	3.6	5.3
80-08-12	0800	462	16.0	18.6	377.	410.	8.4	8.8	3.2	4.2
80-09-09	0820	462	13.5	20.2	361.	400.	8.5	8.5	2.5	3.5
80-10-21	1015	462	5.0	19.0	380.	428.	8.4	8.3	15.0	37.0
80-11-18	1100	462	.5	18.6	347.	409.	8.5	8.4	5.0	8.5
80-12-09	1035	462	0.0	21.2	479.	494.	8.3	8.3	1.1	2.6
81-01-20	0800	462	0.0	16.6	378.	430.	8.1	8.0	3.0	6.3
81-02-17	0830	462	1.0	21.2	398.	463.	8.0	7.8	4.0	22.0
81-03-17	0900	462	.5	20.5	380.	403.	8.6	8.3	7.6	8.4
81-04-07	0840	462	4.0	19.5 61R	481.	498. 41R	8.5	8.5 01R	38.0	46.0 73R
81-05-05	0850	462	9.5	14.8	296.	325.	8.8	8.8	34.0	23.0
81-06-23	0750	462	14.0	19.0	319.	324.	8.2	8.3	110.0	75.0
81-07-21	0650	462	21.0	17.5	331.	329.	8.4	8.5	22.0	40.0
81-08-18	0815	462	20.0	24.9	322.	325.	8.4	8.6	30.0	18.0
81-09-22	0900	462	11.0	19.1	356.	363.	8.6	8.6	5.8	4.7
81-10-27	0835	462	3.5	20.5	506.	518.	8.6	8.3	7.0	7.1
81-11-17	0840	462	3.0	23.3	412.	413.	8.4	8.3	15.0	16.0
81-12-01	0845	462	0.0	21.8	459.	467.	8.3	8.3	2.4	3.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-15	1045	462	5.	--	5.	5.	.004 11F	L2.	L2.	--
80-02-19	1140	462	30.	--	4.	3.	.010 11F	L2.	L2.	--
80-03-18	1205	462	20.	--	8.	4.	.006 11F	42.	2.	--
80-04-15	0820	462	30	--	66.	--	.037	75.	L2.	--
80-05-21	0715	462	20. 11R	--	35. 01R	32. 01R	.006 17T	6. 02U	L2. 12U	--
80-06-10	0830	462	170.	--	241.	220.	.007	1600.	190.	--
80-07-29	0850	462	20.	--	7.	5.	.002	10.	L2.	--
80-08-12	0800	462	20.	--	6.	6.	.001	38.	8.	--
80-09-09	0920	462	30.	--	7.	5.	.001	2.	L2.	--
80-10-21	1015	462	80.	--	49.	45.	.020	40.	14.	--
80-11-18	1100	462	20.	--	14.	11.	.007	L2.	L2.	--
80-12-09	1035	462	30.	--	2.	2.	L.001	4.	L2.	--
81-01-20	0800	462	5.	--	11.	9.	L.001	7.	2.	--
81-02-17	0830	462	40.	--	39.	--	.002	80.	24.	--
81-03-17	0900	462	20.	--	11.	8.	.010	6.	L2.	--
81-04-07	0840	462	--	40. 21R	109. 01R	--	.040 17T	20. 02U	20. 12U	--
81-05-05	0850	462	--	10.	61.	50.	.040	10.	2.	--
81-06-23	0750	462	--	10.	180.	168.	.001	500.	30.	--
81-07-21	0650	462	--	10.	70.	--	.008	70.	65.	--
81-08-18	0815	462	--	10.	29.	27.	.009	20.	10.	--
81-09-22	0900	462	--	10.	13.	--	.008	14.	6.	--
81-10-27	0835	462	--	20.	12.	7.	.010	L10.	L10.	--
81-11-17	0840	462	--	20.	22.	18.	.010	280.	--	--
81-12-01	0845	462	--	10.	2.	1.	.004	L2.	L2.	--

STATION - 00AL05AK0001 LAT. 50D 44M 15S LONG. 110D 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101H OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-15	1045	462	13.3	0.	0.0	200.	164.0 06L	65.80	21.5	252.8
80-02-19	1140	462	16.5	0.	0.0	219.	180.0 06L	58.00	19.5	225.1
80-03-18	1205	462	9.8	0.	0.0	152.	125.0 06L	51.50	13.5	184.2
80-04-15	0920	462	11.3	0.	0.0	146.	120.0	37.20	13.5	148.5
80-05-21	0715	462	8.6	3.	2.3 51R	140.	119.0 01R	39.30 03R	14.2 02R	156.6
80-06-10	0830	462	8.8	0.	0.0	139.	114.0	36.20	11.9	139.4
80-07-29	0950	462	8.2	8.	6.4	119.	110.0	30.40	17.7	148.8
80-08-12	0900	462	8.6	5.	4.4	126.	112.0	31.50	9.7	118.6
80-09-09	0920	462	9.6	0.	0.0	128.	105.0	29.50	17.8	146.9
80-10-21	1015	462	10.8	0.	0.0	168.	138.0	42.60	17.2	177.2
80-11-18	1100	462	13.2	2.	1.7	167.	140.0	45.30	16.0	179.0
80-12-09	1035	462	--	0.	0.0	195.	160.0	54.20	18.8	212.7
81-01-20	0900	462	12.2	0.	0.0	183.	150.0	47.00	17.2	188.2
81-02-17	0930	462	11.0	0.	0.0	185.	152.0	50.80	16.7	195.6
81-03-17	0800	462	13.4	0.	0.0	150.	123.0	42.90	13.1	161.1
81-04-07	0840	462	11.8	0.	0.0 51R	180	148.0 01R	50.70 03R	16.5 02R	194.5
81-05-05	0850	462	10.7	10.	8.0	110.	106.0	31.80	14.2	137.9
81-06-23	0750	462	8.9	0.	0.0	155	127.0	39.30	12.7	150.4
81-07-21	0650	462	7.7	3.	2.8	140	120.0	37.20	13.2	147.2
81-08-18	0815	462	7.8	2.	1.9	137.	116.0	34.80	14.6	147.0
81-09-22	0900	462	9.5	2.	1.6	134.	113.0	31.80	16.9	149.0
81-10-27	0835	462	13.2	0.	0.0	183	150.0	43.50	21.8	198.4
81-11-17	0840	462	12.3	0.	0.0	174.	143.0	47.10	16.6	186.0
81-12-01	0845	462	--	0.	0.0	199	163.0	54.10	18.7	212.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-15	1045	462	287	15.0	1.6	8.9	.19	75.	1.0	--
80-02-19	1140	462	272.	15.0	1.7	9.4	.15	60	.5	--
80-03-18	1205	462	229	16.0	2.8	9.6	.15	58.	3.0	--
80-04-15	0920	462	209	19.0	3.3	5.4	.14	56	2.9	--
80-05-21	0715	462	189	13.0 03R	1.3 03R	3.2 06R	.15 05R	46 06R	.2 05R	--
80-06-10	0830	462	159	7.1	1.2	1.8	.10	28	4.0	--
80-07-29	0950	462	226	25.0	1.9	5.1	.14	79.	.6	--
80-08-12	0900	462	213	24.0	2.3	5.8	.14	72.	.2	--
80-09-09	0920	462	210	22.0	1.8	5.6	.10	70.	.4	--
80-10-21	1015	462	224.	14.0	1.7	5.7	.17	60.	.4	--
80-11-18	1100	462	208	11.0	1.3	4.4	.21	46	.2	--
80-12-09	1035	462	250	16.0	1.4	6.6	.19	56.	.5	--
81-01-20	0900	462	217	9.2	1.2	4.4	.13	44.	4.3	--
81-02-17	0930	462	235	13.0	1.5	5.8	.15	53.	3.3	--
81-03-17	0800	462	205	16.0	1.4	5.5	.16	52.	.8	--
81-04-07	0840	462	261.	24.0 03R	1.8 03R	9.6 06R	L.05 05R	69. 06R	.3 05R	--
81-05-05	0850	462	0172.	12.0	1.2	4.4	.15	45	L.1	--
81-06-23	0750	462	170	7.5	1.0	1.8	.11	26	5.0	--
81-07-21	0650	462	171	9.1	1.1	2.9	.16	35.	.5	--
81-08-18	0815	462	170.	10.0	1.1	2.8	.12	36.	1.0	--
81-09-22	0900	462	193	16.0	1.6	4.7	.15	54	.4	--
81-10-27	0835	462	0291	31.0	2.5	7.6	.16	94.	L.1	--
81-11-17	0840	462	226	15.0	1.5	5.8	.11	54.	.2	--
81-12-01	0845	462	263	18.0	1.6	6.7	.21	66	.1	--

STATION - 00AL05AK0001 LAT. 500 44M 15S LONG. 1100 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-15	1045	462	.073	.067 03L	.006	1.50 10L	--	1.60	.06	1.66
80-02-19	1140	462	.091	.074 03L	.017	1.20 10L	--	1.20	.05	1.25
80-03-18	1205	462	.210	.160 03L	.050	1.40 10L	--	1.90	.13	2.03
80-04-15	0820	462	.210	.077	.133	.70	1.10	.99	.23	1.22
80-05-21	0715	462	.069 06R	.010 03V	.059	L.01 10V	.15 51V	.12 51R	.22 02R	.34
80-06-10	0830	462	.290	.031	.259	.30	.46	.45	.58	1.03
80-07-29	0850	462	.019	.007	.012	L.01	.27	.29	.15	.44
80-08-12	0900	462	.021	.009	.012	L.01	.30	--	.08	--
80-09-09	0920	462	.010	.006	.004	L.01	.20	.23	.06	.29
80-10-21	1015	462	.055	.003	.052	.07	.24	.35	.35	.70
80-11-18	1100	462	.063	.041	.022	.58	.65	.64	.11	.75
80-12-09	1035	462	.044	.033	.011	.88	1.00	.98	.06	1.04
81-01-20	0900	462	.093	.034	.059	.82	.91	.90	.10	1.00
81-02-17	0930	462	.140	.090	.050	.95	1.10	1.10	.13	1.20
81-03-17	0900	462	.063	.038	.025	.65	.75	.79	.16	.95
81-04-07	0840	462	.200 06R	.033 03V	.167	.82 10V	.81 51V	.81 51R	.78 02R	1.59
81-05-05	0850	462	.150	.011	.139	L.01	.21	.18	.52	.70
81-06-23	0750	462	.190	.020	.170	.29	.38	.39	.38	.77
81-07-21	0850	462	.066	.004	.062	L.01	.11	.13	.25	.38
81-08-18	0815	462	.037	.003	.034	.01	.15	.15	.26	.41
81-09-22	0900	462	.021	.006	.015	L.01	.21	.20	.06	.26
81-10-27	0835	462	.050	.013	.037	L.01	.26	--	.23	--
81-11-17	0840	462	.071	.029	.042	1.00	1.00	.95	.17	1.12
81-12-01	0845	462	.100	.082	.018	1.10	1.20	1.20	.05	1.25

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-15	1045	462	--	--	40.0	2.0	.19	2.2	--	.02 05P
80-02-19	1140	462	--	--	29.0	1.0	.31	1.3	--	.03 05P
80-03-18	1205	462	--	--	29.0	3.0	2.00	5.0	--	.06 05P
80-04-15	0820	462	--	--	--	4.0 04D	.85	4.9	--	--
80-05-21	0715	462	--	--	--	3.0 04V	1.60 02R	4.6	--	--
80-06-10	0830	462	--	--	--	3.0 04D	5.30	8.3	--	--
80-07-29	0850	462	--	--	--	3.0 04D	.41	3.4	--	--
80-08-12	0900	462	--	--	--	3.0 04D	.50	3.5	--	--
80-09-09	0920	462	--	--	--	3.0 04D	.33	3.3	--	--
80-10-21	1015	462	--	--	--	2.0 04D	2.70	4.7	--	--
80-11-18	1100	462	--	--	--	2.0 04D	.72	2.7	--	--
80-12-09	1035	462	--	--	--	2.0 04D	.26	2.3	--	--
81-01-20	0900	462	--	--	--	2.0 04D	.68	2.7	--	--
81-02-17	0930	462	--	--	--	2.0 04D	.76	2.8	--	--
81-03-17	0900	462	--	--	--	2.0 04D	.63	2.6	--	.61 02H
81-04-07	0840	462	L.1 06H	--	--	--	4.80 02R	--	--	--
81-05-05	0850	462	L.1	L.003	--	2.8	5.60	8.4	--	.77
81-06-23	0750	462	L.1	.010	--	3.6	4.90	8.5	--	.44
81-07-21	0850	462	L.1	L.003	--	2.1	2.10	4.2	--	.11
81-08-18	0815	462	L.1	L.003	--	2.3	1.40	3.7	--	.10
81-09-22	0900	462	L.1	L.003	--	2.2	.43	2.6	--	L.06
81-10-27	0835	462	L.1	.010	--	4.8	1.30	6.1	--	L.06
81-11-17	0840	462	L.1	.018	--	2.4	1.10	3.5	--	L.06
81-12-01	0845	462	L.1	.079	--	2.3	.33	2.6	--	--

STATION - 00AL05AK0001 LAT. 50D 44M 15S LONG. 110D 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-15	1045	462	.05	.0005 04L	L.0005 02L	L.01	--	.08	--	L.02
80-02-19	1140	462	.06	.0005 04L	L.0005 02L	L.01	--	.06	--	L.02
80-03-18	1205	462	.08	L.0005 04L	L.0005 02L	.02	--	.18	--	L.02
80-04-15	0820	462	.08	.0005	L.0005	--	L.01	--	L.04	L.02
80-05-21	0715	462	L.02 05R	L.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11H
80-06-10	0830	462	.07	L.0005	L.0005	--	L.01	--	L.04	.03
80-07-29	0850	462	.04	.0007	L.0005	--	L.01	--	L.04	L.02
80-08-12	0900	462	.03	.0007	L.0005	--	L.01	--	L.04	L.02
80-09-09	0820	462	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-21	1015	462	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-18	1100	462	.06	.0006	L.0005	--	L.01	--	L.04	L.02
80-12-09	1035	462	.07	.0005	L.0005	--	L.01	--	L.04	L.02
81-01-20	0900	462	.17	.0006	L.0005	--	L.01	--	L.04	L.02
81-02-17	0830	462	.14	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-17	0900	462	.10	.0005	L.0005	--	.01	--	L.04	L.02
81-04-07	0840	462	.08 05R	.0006 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	.03 11H
81-05-05	0850	462	L.02	.0009	L.0005	--	L.01	--	L.04	L.02
81-06-23	0750	462	.10	.0005	L.0005	--	L.01	--	L.04	L.02
81-07-21	0850	462	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-08-18	0815	462	.02	.0006	L.0005	--	L.01	--	L.04	L.02
81-09-22	0900	462	.04 05D	.0006	L.0005	--	L.01	--	L.04	L.02
81-10-27	0835	462	.05 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-17	0840	462	.10 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-01	0845	462	.10 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-15	1045	462	L.001	--	L.015	L.002	--	L.002	--	--
80-02-19	1140	462	L.001	--	L.015	L.002	--	L.002	--	--
80-03-18	1205	462	L.001	--	L.015	L.002	--	L.002	--	--
80-04-15	0920	462	--	L.001	--	--	L.002	--	.012	--
80-05-21	0715	462	--	L.001 20H	--	--	.003 20H	--	.004 20H	--
80-06-10	0830	462	--	L.001	--	--	.006	--	.011	--
80-07-29	0950	462	--	.004	--	--	L.002	--	.006	--
80-08-12	0900	462	--	.001	--	--	L.002	--	L.002	--
80-09-09	0920	462	--	L.001	--	--	L.002	--	.003	--
80-10-21	1015	462	--	L.001	--	--	L.002	--	.005	--
80-11-18	1100	462	--	L.001	--	--	L.002	--	.006	--
80-12-09	1035	462	--	L.001	--	--	L.002	--	.002	--
81-01-20	0900	462	--	.003	--	--	L.002	--	.006	--
81-02-17	0830	462	--	L.001	--	--	.003	--	.004	--
81-03-17	0900	462	--	.001	--	--	L.002	--	L.002	--
81-04-07	0840	462	--	L.001 20H	L.015 02H	--	.003 20H	--	--	--
81-05-05	0850	462	--	.003	--	--	.003	--	--	--
81-06-23	0750	462	--	.010	L.015	--	.002	--	--	--
81-07-21	0650	462	--	.003	L.015	--	L.002	--	.002	--
81-08-18	0815	462	--	.001	L.015	--	.003	--	L.002	--
81-09-22	0900	462	--	.001	L.015	--	L.002	--	L.002	--
81-10-27	0835	462	--	L.001	L.015	--	L.002	--	L.002	--
81-11-17	0840	462	--	.002	L.015	--	L.002	--	L.002	--
81-12-01	0845	462	--	L.001	L.015	--	L.002	--	.002	--

STATION - 00AL05AK0001 LAT. 50D 44M 15S LONG. 110D 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-15	1045	462	.002	--	.004	--	--	--	L.001	--
80-02-19	1140	462	.002	--	L.001	--	--	--	L.001	--
80-03-18	1205	462	.001	--	.005	--	--	--	L.001	--
80-04-15	0920	462	--	.008	--	.012	--	--	--	L.001
80-05-21	0715	462	--	.002 20M	--	.008 20M	--	--	--	L.001 20M
80-06-10	0830	462	--	.008	--	.031	--	--	--	L.001
80-07-29	0850	462	--	.002	--	.003	--	--	--	L.001
80-08-12	0900	462	--	.001	--	.003	--	--	--	L.001
80-09-09	0920	462	--	.001	--	.006	--	--	--	L.001
80-10-21	1015	462	--	.003	--	.007	--	--	--	L.001
80-11-18	1100	462	--	.002	--	.009	--	--	--	L.001
80-12-09	1035	462	--	.001	--	.003	--	--	--	.001
81-01-20	0900	462	--	.001	--	.002	--	--	--	L.001
81-02-17	0930	462	--	.003	--	.007	--	--	--	.001
81-03-17	0900	462	--	.001	--	.002	--	--	--	L.001
81-04-07	0840	462	--	.003 20M	--	--	--	--	--	L.001 20M
81-05-05	0850	462	--	.005	--	--	--	--	--	L.001
81-06-23	0750	462	--	.005	--	.013	--	--	--	.002
81-07-21	0850	462	--	.003	--	.008	--	--	--	L.001
81-08-18	0815	462	--	L.001	--	.003	--	--	--	L.001
81-09-22	0900	462	--	L.001	--	.004	--	--	--	L.001
81-10-27	0835	462	--	.003	--	L.001	--	--	--	L.001
81-11-17	0840	462	--	.002	--	.002	--	--	--	L.001
81-12-01	0845	462	--	L.001	--	.002	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-15	1045	462	.07	--	L.004	--	.003	.002	L1.0	L1.0
80-02-19	1140	462	.09	--	L.004	--	.003	.003	L1.0	L1.0
80-03-18	1205	462	.05	--	L.004	--	.003	.001	L1.0	L1.0
80-04-15	0920	462	--	.07	--	L.004	.003	.001	L1.0	L1.0
80-05-21	0715	462	--	.07 20M	--	L.004 20M	.002 04M	.001 35M	L1.0 00M	L1.0 10M
80-06-10	0830	462	--	.11	--	.004	.003	L.001	L1.0	L1.0
80-07-29	0850	462	--	L.05	--	L.004	.002	.001	L1.0	L1.0
80-08-12	0900	462	--	L.05	--	L.004	.002	.003	--	L1.0
80-09-09	0920	462	--	.07	--	L.004	.002	.001	L1.0	L1.0
80-10-21	1015	462	--	.05	--	L.004	.002	L.001	L1.0	L1.0
80-11-18	1100	462	--	.05	--	L.004	.008	L.001	L1.0	L1.0
80-12-09	1035	462	--	.11	--	L.004	.007	L.001	L1.0	L1.0
81-01-20	0900	462	--	L.05	--	L.004	.013	L.001	L1.0	L1.0
81-02-17	0930	462	--	.08	--	L.004	.008	.001	L1.0	L1.0
81-03-17	0900	462	--	L.05	--	L.004	.015	L.001	L1.0	L1.0
81-04-07	0840	462	--	.14 20M	--	L.004 20M	.005 04M	.001 35M	L1.0 00M	L1.0 10M
81-05-05	0850	462	--	.11	--	L.004	.001	L.001	L1.0	L1.0
81-06-23	0750	462	--	.15	--	.006	.002	L.001	L1.0	L1.0
81-07-21	0850	462	--	.10	--	L.004	.003	L.001	L1.0	L1.0
81-08-18	0815	462	--	.09	--	L.004	.003	L.001	L1.0	L1.0
81-09-22	0900	462	--	.08	--	L.004	.002	.001	L1.0	L1.0
81-10-27	0835	462	--	.09	--	L.004	L.001	.004	L1.0	L1.0
81-11-17	0840	462	--	.07	--	L.004	.004	.001	L1.0	L1.0
81-12-01	0845	462	--	.10	--	L.004	.005	L.001	L1.0	L1.0

STATION - 00AL05AK0001 LAT. 50D 44M 15S LONG. 110D 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-15	1045	462	L1.	L.01	L.001	L.001	.004	.001	L.002	L.001
80-02-19	1140	462	L1.	L.01	L.001	L.001	.002	L.001	L.002	L.001
80-03-18	1205	462	L1.	.01	L.001	L.001	.003	.001	L.002	L.001
80-04-15	0920	462	L1.	L.01	L.001	L.001	.004	.001	L.002	L.001
80-05-21	0715	462	L1. 21M	L.01 01M	L.001 30R	L.001 11R	.003 75R	.001 70R	L.002 10R	L.001 20R
80-06-10	0830	462	L1.	L.01	L.001	L.001	.001	L.001	L.002	L.001
80-07-29	0950	462	L1.	L.01	L.001	L.001	.010	L.001	L.002	L.001
80-08-12	0900	462	L1.	L.01	L.001	L.001	.010	.001	L.002	L.001
80-09-09	0920	462	L1.	L.01	L.001	L.001	.006	L.001	L.002	L.001
80-10-21	1015	462	L1.	L.01	L.001	L.001	.003	L.001	L.002	L.001
80-11-18	1100	462	L1.	L.01	L.001	L.001	.001	L.001	L.002	L.001
80-12-09	1035	462	1.	L.01	L.001	L.001	.009	.005	L.002	L.001
81-01-20	0900	462	L1.	L.01	L.001	L.001	.005	L.001	L.002	L.001
81-02-17	0930	462	1.	L.01	L.001	L.001	.003	L.001	L.002	L.001
81-03-17	0900	462	L1.	L.01	L.001	L.001	.001	L.001	L.002	L.001
81-04-07	0840	462	L1. 21M	L.01 01M	L.001 30R	L.001 11R	.002 75R	.004 70R	L.002 10R	L.001 20R
81-05-05	0850	462	L1.	L.01	L.001	L.001	.003	.002	L.002	L.001
81-06-23	0750	462	2.	.01	L.001	L.001	L.001	L.001	L.002	L.001
81-07-21	0850	462	L1.	L.01	L.001	L.001	.004	.001	L.002	L.001
81-08-18	0815	462	L1.	L.01	L.001	L.001	.005	.001	L.002	L.001
81-09-22	0900	462	L1.	.02	L.001	L.001	.008	L.001	L.002	L.001
81-10-27	0835	462	--	L.01	L.001	L.001	.005	L.001	L.002	L.001
81-11-17	0840	462	--	L.01	L.001	L.001	.006	.002	L.002	L.001
81-12-01	0845	462	--	--	L.001	L.001	.003	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-15	1045	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-02-19	1140	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-03-18	1205	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-04-15	0920	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-21	0715	462	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
80-06-10	0830	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-07-29	0950	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-12	0900	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-09-09	0920	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-21	1015	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-11-18	1100	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-12-09	1035	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-20	0900	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-02-17	0930	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-03-17	0900	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-04-07	0840	462	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
81-05-05	0850	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-06-23	0750	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-07-21	0850	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-18	0815	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-09-22	0900	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-27	0835	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-11-17	0840	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-12-01	0845	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05AK0001 LAT. 50D 44M 15S LONG. 110D 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-15	1045	462	L.002	L.001	L.003	L.002	L.2	.030	L.009	L.004
80-02-19	1140	462	L.002	L.001	L.003	L.002	L.2	.100	L.009	L.004
80-03-18	1205	462	L.002	L.001	L.003	L.002	L.2	.200	L.009	L.004
80-04-15	0920	462	L.002	L.001	L.003	L.002	L.2	.100	L.009	L.004
80-05-21	0715	462	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	.300 00W	L.009 50W	L.004 55W
80-06-10	0830	462	L.002	L.001	L.003	L.002	L.2	.030	L.009	L.004
80-07-29	0950	462	L.002	L.001	L.003	L.002	L.2	.070	L.009	L.004
80-08-12	0900	462	L.002	L.001	L.003	L.002	L.2	.300	L.009	L.004
80-09-09	0920	462	L.002	L.001	L.003	L.002	L.2	.060	L.009	L.004
80-10-21	1015	462	L.002	L.001	L.003	L.002	L.2	.070	L.009	L.004
80-11-18	1100	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-12-09	1035	462	L.002	L.001	L.003	L.002	L.2	.050	L.009	L.004
81-01-20	0900	462	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
81-02-17	0930	462	L.002	L.001	L.003	L.002	--	--	--	--
81-03-17	0900	462	L.002	L.001	L.003	L.002	L.2	.030	L.009	L.004
81-04-07	0840	462	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	.200 00W	L.009 50W	L.004 55W
81-05-05	0850	462	L.002	L.001	L.003	L.002	L.2	.030	L.009	L.004
81-06-23	0750	462	L.002	L.001	L.003	L.002	L.2	.040	L.009	L.004
81-07-21	0650	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-18	0815	462	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004
81-09-22	0900	462	L.002	L.001	L.003	L.002	L.2	.040	L.009	L.004
81-10-27	0835	462	L.002	L.001	L.003	L.002	L.2	.030	L.009	L.004
81-11-17	0840	462	L.002	L.001	L.003	L.002	L.2	.040	L.009	L.004
81-12-01	0845	462	L.002	L.001	L.003	L.002	L.2	.050	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-15	1045	462	L.002	L.004	--	--	L.002	L.002	L.005	L.020
80-02-19	1140	462	L.002	L.004	--	--	L.002	L.002	L.005	L.020
80-03-18	1205	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-04-15	0920	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-21	0715	462	L.002 10W	L.004 40W	L.2 01W	--	L.002 60R	L.002 61R	L.005 62R	L.020 64R
80-06-10	0830	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-07-29	0950	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-12	0900	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-09-09	0920	462	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-10-21	1015	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-11-18	1100	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-12-09	1035	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-01-20	0900	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-02-17	0930	462	--	--	L.2	--	L.002	L.002	L.005	--
81-03-17	0900	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-04-07	0840	462	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	--	L.005 62R	L.002 64R
81-05-05	0850	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-06-23	0750	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-21	0650	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-18	0815	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-09-22	0900	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-10-27	0835	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-11-17	0840	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-12-01	0845	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05BA0011 LAT. 51D 26M 35S LONG. 116D 12M 42S
BOW RIVER AT HIGHWAY 1 ABOVE LAKE LOUISE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-08	1345	417	1.0	17.8	--	196.	8.3	8.0	.5	1.5
80-02-05	1345	417	1.0	18.1	--	184.	7.9	7.8	.5	--
80-03-04	1700	417	.5	22.2	165.	201.	8.3	8.0	.4	1.4
80-04-22	1130	417	1.0	20.1	160.	188.	8.3	8.0	--	.2
80-05-13	1215	417	4.0	17.8	149.	160.	8.3	8.4	1.2	.9
80-06-18	1220	417	10.0	19.7	145.	161.	8.2	8.1	3.6	5.4
80-07-28	1045	417	12.0	21.7	--	155.	8.4	8.1	4.0	4.3
80-08-19	1215	417	8.0	16.9	135.	152.	8.1	8.0	.2	2.3
80-09-16	1240	417	6.0	17.7	143.	153.	--	8.1	1.2	1.8
80-10-07	1240	417	6.5	19.4	149.	167.	7.6	8.1	.9	1.0
80-11-11	1445	417	1.0	19.1	151.	180.	8.0	8.0	.2	.7
80-12-02	1505	417	0.0	19.5	167.	209.	7.8	8.1	.4	1.8
81-01-13	1515	417	0.0	20.2	172.	203.	7.5	8.0	.2	.5
81-02-24	1545	417	0.0	22.5	169.	200.	8.3	8.1	.1	.6
81-03-24	1245	417	0.0	18.4	190.	196.	8.1	8.0	.3	.5
81-04-22	1210	417	1.5	20.7	205.	215.	8.2	8.1	.2	1.2
81-05-12	1205	417	3.0	17.8	172.	191.	7.9	8.0	.3	1.2
81-06-16	1100	417	6.0	17.2	162.	166.	8.0	8.0	1.4	1.3
81-07-07	1120	417	8.0	14.9	154.	159.	8.1	8.1	2.5	2.7
81-08-11	1215	417	14.0	24.0	--	164.	8.0	8.3	6.8	3.2
81-09-15	1040	417	7.5	23.1	150.	156.	8.0	8.2	.2	2.8
81-10-06	1140	417	4.5	23.5	156.	166.	8.0	8.1	1.5	2.0
81-11-03	1130	417	2.0	17.4	161.	175.	8.1	8.0	.5	.9
81-12-08	1230	417	0.0	22.0	173.	178.	8.0	8.0	.4	.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-08	1345	417	5.	--	L1.	--	--	L2.	L2.	L2.
80-02-05	1345	417	5.	--	L1.	--	--	L2.	L2.	L2.
80-03-04	1700	417	10.	--	L1.	--	--	L2.	L2.	L2.
80-04-22	1130	417	5.	--	2. 01R	--	L.001 17T	L2. 02U	L2. 12U	2. 03U
80-05-13	1215	417	5.	--	L1.	--	L.001	2.	L2.	L2.
80-06-18	1220	417	10.	--	9.	--	L.001	--	--	--
80-07-28	1045	417	10.	--	2.	--	--	--	--	--
80-08-19	1215	417	10.	--	3.	--	.002	3.	2.	L2.
80-09-16	1240	417	10.	--	2.	--	L.001	2.	L2.	2.
80-10-07	1240	417	10.	--	L1	--	L.001	L2.	L2.	L2.
80-11-11	1445	417	10.	--	L1.	--	.001	12	9.	L2.
80-12-02	1505	417	5.	--	L1.	--	L.001	3.	L2.	--
81-01-13	1515	417	10.	--	1.	--	L.001	L2.	L2.	L2.
81-02-24	1545	417	L5.	--	L1.	--	L.001	L2	L2.	L2.
81-03-24	1245	417	--	5.	4.	--	L.001	L1	L1.	L1.
81-04-22	1210	417	--	5.	L1.	--	L.001	L1.	L1.	L1.
81-05-12	1205	417	--	10.	L1.	--	L.001	L1.	L1.	1.
81-06-16	1100	417	--	5.	L1. 01R	--	L.001 17T	5. 02U	L2. 12U	2. 03U
81-07-07	1120	417	--	5	5.	--	L.001	10.	4.	3.
81-08-11	1215	417	--	5.	2.	--	L.001	L2.	L2.	L2.
81-09-15	1040	417	--	10.	2.	--	L.001	1.	L1.	1.
81-10-06	1140	417	--	5.	L1.	--	L.001	1	L1.	L1.
81-11-03	1130	417	--	10.	L1.	--	L.001	L1.	L1.	1.
81-12-08	1230	417	--	5.	L1.	--	L.001	2.	L1.	L1.

STATION - 00AL05BA0011   LAT. 51D 28M 36S   LONG. 116D 12M 42S
BOW RIVER AT HIGHWAY 1 ABOVE   LAKE LOUISE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101W OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-08	1345	417	12.3	0.	0.0	96.	79.0 06L	23.40	8.9	95.1
80-02-05	1345	417	12.6	0.	0.0	91.	75.0 06L	20.50	9.0	88.2
80-03-04	1700	417	11.9	0.	0.0	93.	76.0 06L	21.00	9.0	89.5
80-04-22	1130	417	12.5	0.	0.0	100.	82.0	22.50	9.0	93.2
80-05-13	1215	417	11.2	0.	0.0	85.	70.0	19.90	8.3	83.9
80-06-18	1220	417	9.8	0.	0.0	81.	66.0	18.40	7.4	76.4
80-07-28	1045	417	9.7	0.	0.0	82.	67.0	19.40	7.3	78.5
80-08-19	1215	417	10.0	0.	0.0	81.	66.0	20.20	7.6	81.7
80-09-16	1240	417	10.6	0.	0.0	83.	68.0	19.50	7.7	80.4
80-10-07	1240	417	12.0	0.	0.0	84.	69.0	20.00	7.1	79.2
80-11-11	1445	417	13.5	0.	0.0	91.	75.0	21.30	8.3	87.4
80-12-02	1505	417	12.2	0.	0.0	105.	86.0	25.10	9.7	102.6
81-01-13	1515	417	11.4	0.	0.0	102.	84.0	24.40	9.5	100.0
81-02-24	1545	417	11.8	0.	0.0	100.	82.0	23.40	9.1	95.9
81-03-24	1245	417	12.7	0.	0.0	100.	82.0	23.80	9.5	98.5
81-04-22	1210	417	11.6	0.	0.0	107.	88.0	25.00	11.0	107.7
81-05-12	1205	417	11.1	0.	0.0	102.	84.0	24.30	8.8	96.9
81-06-16	1100	417	10.2	0.	0.0	87.	71.0	20.80	8.2	85.7
81-07-07	1120	417	9.7	0.	0.0	83.	68.0	19.30	7.9	80.7
81-08-11	1215	417	9.0	0.	0.0	84.	69.0	20.10	7.8	82.3
81-09-15	1040	417	9.8	0.	0.0	81.	66.0	19.30	7.0	77.0
81-10-06	1140	417	11.5	0.	0.0	88.	72.0	21.10	7.6	84.0
81-11-03	1130	417	11.5	0.	0.0	91.	75.0	22.40	8.9	92.6
81-12-08	1230	417	11.8	0.	0.0	96.	79.0	23.40	8.2	92.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-08	1345	417	93.	.6	.2	.4	L.05	9.	2.8	--
80-02-05	1345	417	88.	.6	.1	.4	L.05	10.	2.5	--
80-03-04	1700	417	90.	.6	.2	.4	.05	10.	2.8	--
80-04-22	1130	417	93.	.6	.4	.5	.03	8.	3.2	--
80-05-13	1215	417	82.	.5	.3	.4	L.05	9.	1.4	--
80-06-18	1220	417	75.	.4	.2	.4	L.05	8.	.4	--
80-07-28	1045	417	78.	.3	.2	.2	L.05	9.	1.8	--
80-08-19	1215	417	79.	.4	.2	.3	L.05	8.	2.2	--
80-09-16	1240	417	79.	.5	.1	.2	L.05	8.	2.2	--
80-10-07	1240	417	78.	.5	.2	.2	L.05	8.	.2	--
80-11-11	1445	417	86.	.6	.1	.3	.06	8.	2.5	--
80-12-02	1505	417	100.	.9	.2	.7	L.05	9.	3.1	--
81-01-13	1515	417	98.	.2	.2	.3	.06	10.	3.2	--
81-02-24	1545	417	96.	.6	.2	.3	.06	10.	2.9	--
81-03-24	1245	417	97.	.7	.2	.3	.06	10.	2.8	--
81-04-22	1210	417	104.	.9	.2	.6	.07	10.	3.8	--
81-05-12	1205	417	98.	.9	.2	.6	.06	8.	4.3	--
81-06-16	1100	417	84.	.8	.1	.2	L.05	8.	2.8	--
81-07-07	1120	417	79.	.4	.2	.2	L.05	8.	2.2	--
81-08-11	1215	417	80.	.3	.1	.2	L.05	8.	2.1	--
81-09-15	1040	417	77.	.4	.2	.2	L.05	8.	1.8	--
81-10-06	1140	417	83.	.5	.3	.3	L.05	8.	2.2	--
81-11-03	1130	417	89.	1.9	.2	.5	L.05	8.	2.4	--
81-12-08	1230	417	92.	.4	.3	.4	L.05	9.	2.7	--

STATION - 00AL05BA0011 LAT. 51D 26M 39S LONG. 116D 12M 42S
BOW RIVER AT HIGHWAY 1 ABOVE LAKE LOUISE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-08	1345	417	.016	L.003 03L	Q.013	.12 10L	--	.15	L.01	Q.16
80-02-05	1345	417	L.003	L.003 03L	Q0.000	.08 10L	--	.08	.03	.11
80-03-04	1700	417	L.003	L.003 03L	Q0.000	.09 10L	--	.12	L.01	Q.13
80-04-22	1130	417	L.003 06R	L.003 03V	Q0.000	.07 10V	.12 51V	.16 51R	.11 02R	.27
80-05-13	1215	417	.007	L.003	Q.004	.06	.09	.12	L.01	Q.13
80-06-18	1220	417	.008	L.003	Q.005	.04	.07	.07	L.01	Q.08
80-07-28	1045	417	--	L.003 03L	--	.04 10L	--	.04	.04	.08
80-08-19	1215	417	L.003	L.003	Q0.000	.03	.05	.10	.05	.15
80-09-18	1240	417	L.003	L.003	Q0.000	.03	.05	.06	L.01	Q.07
80-10-07	1240	417	L.003	L.003	Q0.000	.05	.06	.07	.09	.16
80-11-11	1445	417	L.003	L.003	Q0.000	.07	07	.13	.03	.16
80-12-02	1505	417	L.003	L.003	Q0.000	.06	.09	.09	L.01	Q.10
81-01-13	1515	417	L.003	L.003	Q0.000	.07	.10	.10	L.01	Q.11
81-02-24	1545	417	L.003	L.003	Q0.000	.07	.10	.10	L.01	Q.11
81-03-24	1245	417	L.003	L.003	Q0.000	.07	.09	.10	L.01	Q.11
81-04-22	1210	417	L.003	L.003	Q0.000	.06	.10	.14	L.01	Q.15
81-05-12	1205	417	.008	L.003	Q.005	.05	.10	.10	L.01	Q.11
81-06-16	1100	417	L.003 06R	L.003 03V	Q0.000	.05 10V	.07 51V	.07 51R	L.01 02R	Q.08
81-07-07	1120	417	.007	.003	.004	.05	.07	.06	L.01	Q.07
81-08-11	1215	417	.005	L.003	Q.003	.05	.05	.07	.02	.09
81-09-15	1040	417	L.003	L.003	Q0.000	.04	.06	.06	L.01	Q.07
81-10-06	1140	417	L.003	L.003	Q0.000	.04	.06	.07	L.01	Q.08
81-11-03	1130	417	L.003	L.003	Q0.000	.07	.08	--	L.01	--
81-12-08	1230	417	L.003	L.003	Q0.000	.06	.09	.09	L.01	Q.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07505P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-08	1345	417	--	--	19.0	L1.0	.06	Q1.1	--	--
80-02-05	1345	417	--	--	15.0	1.0	.04	1.0	--	--
80-03-04	1700	417	--	--	14.0	L1.0	L.01	Q1.0	--	--
80-04-22	1130	417	--	--	--	3.0 04V	--	--	--	--
80-05-13	1215	417	--	--	--	2.0 04D	--	--	--	--
80-06-18	1220	417	--	--	--	1.0 04D	.57	1.6	--	--
80-07-28	1045	417	--	--	--	L1.0	.17	Q1.2	--	--
80-08-19	1215	417	--	--	--	L1.0 04D	.14	Q1.1	--	--
80-09-18	1240	417	--	--	--	L1.0 04D	.05	Q1.1	--	--
80-10-07	1240	417	--	--	15.0 52D	L1.0 04D	14	Q1.1	--	--
80-11-11	1445	417	--	--	--	L1.0 04D	.08	Q1.1	--	--
80-12-02	1505	417	--	--	--	L1.0 04D	.06	Q1.1	--	--
81-01-13	1515	417	--	--	--	L1.0 04D	.03	Q1.0	--	--
81-02-24	1545	417	--	--	--	L1.0 04D	04	Q1.0	--	--
81-03-24	1245	417	--	--	--	.5	.07	.6	--	--
81-04-22	1210	417	--	--	--	--	.06	--	--	--
81-05-12	1205	417	L.1	--	--	2.4	.06	2.5	--	--
81-06-16	1100	417	L.1 05W	--	--	1.2 04R	.11 02R	1.3	--	--
81-07-07	1120	417	L.1	--	--	.6	.32	.9	--	--
81-08-11	1215	417	L.1	--	--	.4	.13	.5	--	--
81-09-15	1040	417	L.1	--	--	.5	.14	.6	--	--
81-10-06	1140	417	L.1	--	--	.6	.13	.7	--	--
81-11-03	1130	417	L.1	--	--	1.8	.05	1.9	--	--
81-12-08	1230	417	L.1	--	--	.6	.05	.7	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BA0011 | LAT. 51D 28M 35S LONG. 116D 12M 42S
BOW RIVER AT HIGHWAY 1 ABOVE LAKE LOUISE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-08	1345	417	--	--	--	--	--	--	--	L.02
80-02-05	1345	417	--	--	--	--	--	--	--	L.02
80-03-04	1700	417	--	--	--	--	--	--	--	L.02
80-04-22	1130	417	.03 05R	L.0005 04R	L.0005 02R	--	L.01 04T	--	L.04 04T	L.02 11W
80-05-13	1215	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-18	1220	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-07-28	1045	417	L.02	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-08-19	1215	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-16	1240	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-07	1240	417	L.02	L.0005	.0008	--	L.01	--	L.04	.02
80-11-11	1445	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-02	1505	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-13	1515	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-24	1545	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-24	1245	417	L.02	L.0005	.0006	--	L.01	--	L.04	L.02
81-04-22	1210	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-12	1205	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-06-16	1100	417	L.02 05R	L.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11W
81-07-07	1120	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-08-11	1215	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-15	1040	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-06	1140	417	.02 05D	L.0005	.0006	--	L.01	--	L.04	L.02
81-11-03	1130	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-08	1230	417	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05BB0008
BREWSTER CREEK AT HWY 1 NEAR MOUTH, BANFF NATIONAL PARK, ALBERTA   LAT. 51D 8M 42S   LONG. 115D 40M 13S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-04-22	1520	3	6.0	19.9	363.	408.	8.3	8.3	--	.3
80-05-13	1350	3	6.0	17.6	235.	265.	8.4	8.2	1.0	.8
80-06-17	1340	3	6.0	18.6	204.	227.	7.9	8.2	2.2	3.6
80-07-29	1030	3	7.0	21.6	--	320	8.4	8.3	1.0	.6
80-08-19	1350	3	7.0	17.6	285.	316.	8.2	8.2	.1	.3
80-09-16	1420	3	5.0	17.8	298.	336.	7.7	8.3	.4	.4
80-10-07	1415	3	7.0	19.5	288.	326.	7.9	8.3	.3	.4
80-11-11	1620	3	1.0	19.1	324.	375.	8.0	8.2	.2	.7
80-12-02	1620	3	0.0	19.9	346.	402.	7.7	8.3	L.1	.9
81-01-13	1635	3	.5	20.2	351.	400.	7.9	8.2	.1	.5
81-02-24	1730	3	1.0	22.6	357.	415.	8.5	8.2	L.1	.9
81-03-24	1415	3	3.5	18.2	399.	413.	8.3	8.2	.3	.5
81-04-22	1340	3	4.5	20.8	399.	412.	8.3	8.3	.2	.7
81-05-12	1330	3	5.5	18.5	345.	373.	8.3	8.2	.5	.7
81-06-16	1320	3	5.5	17.9	244.	255.	8.3	8.2	1.7	1.3
81-07-07	1340	3	5.0	16.2	208.	215.	8.2	8.2	4.0	4.0
81-08-11	1445	3	11.0	25.1	--	289.	--	7.9	1.0	.4
81-09-15	1200	3	5.0	23.1	333	349	8.3	8.3	L.1	.3
81-10-06	1250	3	4.0	23.4	339	360.	8.2	8.3	.2	.5
81-11-03	1250	3	3.5	17.1	356	375	8.2	8.2	.2	.3
81-12-08	1400	3	0.0	21.8	369.	369	8.2	8.2	.2	.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	02011L COLOUR APPARENT REL UNITS	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-04-22	1520	3	5	--	2	--	L.001	L2	L2	--
80-05-13	1350	3	5	--	L1	--	L.001	3	L2	--
80-06-17	1340	3	5	--	6	--	.002	--	--	--
80-07-29	1030	3	10.	--	L1	--	--	--	--	--
80-08-19	1350	3	10	--	2	--	L.001	7	L2	--
80-09-16	1420	3	5	--	2	--	L.001	L2	L2	--
80-10-07	1415	3	10	--	1	--	L.001	L2	L2	--
80-11-11	1620	3	10	--	L1	--	.001	L2	L2	--
80-12-02	1620	3	20	--	L1	--	L.001	5	L2	--
81-01-13	1635	3	5	--	1.	--	L.001	L2	L2	--
81-02-24	1730	3	L5	--	L1.	--	.001	L2	L2	--
81-03-24	1415	3	--	5.	L1	--	L.001	L1	L1	--
81-04-22	1340	3	--	10.	L1	--	L.001	L1	L1	--
81-05-12	1330	3	--	5	L1	--	L.001	L1.	L1	--
81-06-16	1320	3	--	10.	2	--	L.001	L1	L1	--
81-07-07	1340	3	--	5	6.	--	L.001	L1.	L1.	--
81-08-11	1445	3	--	5	1	--	.001	L2	L2	--
81-09-15	1200	3	--	5	L1	--	L.001	L1	L1	--
81-10-06	1250	3	--	5	L1	--	L.001	L1	L1	--
81-11-03	1250	3	--	10	L1	--	L.001	L1.	L1	--
81-12-08	1400	3	--	5	L1	--	.001	1.	L1	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BB0008
BREWSTER CREEK AT HWY 1 NEAR MOUTH. BANFF NATIONAL PARK, ALBERTA   LAT. 51D 9M 42S LONG. 115D 40M 13S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONAT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-04-22	1520	3	11.5	0.	0.0	159	130.0	55.80	16.6	207.7
80-05-13	1350	3	10.7	0.	0.0	122	100.0	34.40	10.8	130.4
80-06-17	1340	3	10.9	0.	0.0	112.	92.0	29.70	8.7	110.0
80-07-29	1030	3	11.6	0.	0.0	138.	113.0	43.00	12.2	157.6
80-08-19	1350	3	11.1	0.	0.0	143.	117.0	44.80	13.2	166.2
80-09-16	1420	3	11.3	0.	0.0	144.	118.0	45.00	13.3	167.1
80-10-07	1415	3	10.9	0.	0.0	141.	116.0	43.00	12.6	159.3
80-11-11	1620	3	13.9	0.	0.0	150.	123.0	49.00	15.1	184.5
80-12-02	1620	3	12.4	0.	0.0	157.	129.0	51.60	16.4	196.4
81-01-13	1635	3	11.8	0.	0.0	150.	123.0	53.10	15.9	198.1
81-02-24	1730	3	11.3	0.	0.0	151.	124.0	54.00	16.1	201.1
81-03-24	1415	3	11.9	0.	0.0	150.	123.0	54.30	16.5	203.5
81-04-22	1340	3	11.0	0.	0.0	157.	129.0	55.50	18.0	212.7
81-05-12	1330	3	10.7	0.	0.0	161.	132.0	53.00	17.2	203.2
81-06-16	1320	3	10.8	0.	0.0	129.	106.0	35.20	10.4	130.7
81-07-07	1340	3	10.7	0	0.0	111.	91.0	29.90	8.8	110.9
81-08-11	1445	3	10.3	0.	0.0	137.	112.0	39.80	11.8	148.0
81-09-15	1200	3	11.2	0.	0.0	156.	128.0	47.00	14.5	177.1
81-10-06	1250	3	11.1	0.	0.0	152.	125.0	49.00	14.6	182.5
81-11-03	1250	3	11.4	0.	0.0	152.	125.0	52.10	16.6	198.4
81-12-08	1400	3	12.2	0.	0 0	154.	126.0	54.20	16.1	201.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-04-22	1520	3	226	.9	.3	1.2	.19	69	4.0	--
80-05-13	1350	3	132.	.4	.2	.4	.13	23.	3.1	--
80-06-17	1340	3	112	.2	.2	.3	.08	15.	2.9	--
80-07-29	1030	3	164	.4	.2	.4	.16	37.	3.4	--
80-08-19	1350	3	169	.5	.2	.4	.15	36.	4.1	--
80-09-16	1420	3	176	.5	.2	.4	.18	42.	4.2	--
80-10-07	1415	3	170.	.7	.6	1.0	.58	36.	6.1	--
80-11-11	1620	3	198	.6	.3	.5	.20	55.	3.7	--
80-12-02	1620	3	205.	.6	.3	.6	.15	54.	4.2	--
81-01-13	1635	3	212.	.5	.3	.5	.19	64.	4.0	--
81-02-24	1730	3	218	.5	.3	.5	.21	68.	3.8	--
81-03-24	1415	3	219.	.7	.4	.6	.20	69	4.0	--
81-04-22	1340	3	220.	.5	.3	.6	.20	64.	4.0	--
81-05-12	1330	3	204	.8	.3	.8	L.05	48.	4.2	--
81-06-16	1320	3	132.	.5	.1	.4	.13	18.	3.4	--
81-07-07	1340	3	110	.3	.2	.3	.11	13.	3.0	--
81-08-11	1445	3	148.	.3	.2	.4	.16	25.	3.6	--
81-09-15	1200	3	185.	.5	.3	.5	.17	42.	4.0	--
81-10-06	1250	3	191.	.5	.3	.4	.20	48.	3.6	--
81-11-03	1250	3	204.	1.6	.3	1.0	.23	54.	3.6	--
81-12-08	1400	3	213.	.4	.3	.5	.19	62.	3.9	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BB0008 LAT. 51D 8M 42S LONG. 115D 40M 13S
BREWSTER CREEK AT HWY 1 NEAR MOUTH, BANFF NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-04-22	1520	3	.008	--	--	.11	.12	--	.09	--
80-05-12	1350	3	L.003	L.003	Q0.000	.08	.11	.13	L.01	Q.14
80-06-17	1340	3	.008	--	--	.07	.09	.07	.03	.10
80-07-29	1030	3	--	L.003 03L	--	.10 10L	--	.13	L.01	Q.14
80-08-19	1350	3	L.003	L.003	Q0.000	.07	.09	.15	.02	.17
80-09-16	1420	3	L.003	L.003	Q0.000	.08	.09	.11	.02	.13
80-10-07	1415	3	L.003	L.003	Q0.000	.08	.10	.10	.05	.15
80-11-11	1620	3	L.003	L.003	Q0.000	.11	.10	.12	.21	.33
80-12-02	1620	3	L.003	L.003	Q0.000	.12	.13	.15	L.01	Q.16
81-01-13	1635	3	L.003	L.003	Q0.000	.11	.12	.13	L.01	Q.14
81-02-24	1730	3	L.003	L.003	Q0.000	.10	.15	.19	L.01	Q.20
81-03-24	1415	3	L.003	L.003	Q0.000	.13	.15	.16	L.01	Q.17
81-04-22	1340	3	L.003	L.003	Q0.000	.12	.15	.17	L.01	Q.18
81-05-12	1330	3	.003	L.003	Q0.000	.11	.13	.14	L.01	Q.15
81-06-16	1320	3	L.003	L.003	Q0.000	.06	.09	.09	L.01	Q.10
81-07-07	1340	3	.009	.003	.006	.05	.08	.08	L.01	Q.09
81-08-11	1445	3	L.003	L.003	Q0.000	.06	.09	.09	L.01	Q.10
81-09-15	1200	3	L.003	L.003	Q0.000	.09	.13	.13	L.01	Q.14
81-10-06	1250	3	L.003	L.003	Q0.000	.06	.11	.11	L.01	Q.12
81-11-03	1250	3	L.003	L.003	Q0.000	.11	.11	--	L.01	--
81-12-08	1400	3	L.003	L.003	Q0.000	.10	.13	.14	L.01	Q.15

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-04-22	1520	3	--	--	--	1.0 04D	--	--	--	--
80-05-13	1350	3	--	--	--	2.0 04D	.21	2.2	--	--
80-06-17	1340	3	--	--	--	1.0 04D	.48	1.5	--	--
80-07-29	1030	3	--	--	--	L1.0	.06	Q1.1	--	--
80-08-19	1350	3	--	--	--	1.0 04D	.06	1.1	--	--
80-09-16	1420	3	--	--	--	L1.0 04D	.11	Q1.1	--	--
80-10-07	1415	3	--	--	--	L1.0 04D	.09	Q1.1	--	--
80-11-11	1620	3	--	--	--	L1.0 04D	.04	Q1.0	--	--
80-12-02	1620	3	--	--	--	L1.0 04D	L.01	Q1.0	--	--
81-01-13	1635	3	--	--	--	L1.0 04D	.02	Q1.0	--	--
81-02-24	1730	3	--	--	--	L1.0	.05	Q1.1	--	--
81-03-24	1415	3	--	--	--	.6	.05	.7	--	--
81-04-22	1340	3	--	--	--	--	.07	--	--	--
81-05-12	1330	3	L.1	--	--	1.3	.09	1.4	--	--
81-06-16	1320	3	L.1	--	--	1.5	.11	1.6	--	--
81-07-07	1340	3	L.1	--	--	1.0	.54	1.5	--	--
81-08-11	1445	3	L.1	--	--	.8	.06	.9	--	--
81-09-15	1200	3	L.1	--	--	1.0	.08	1.1	--	--
81-10-06	1250	3	--	--	--	.8	.03	.8	--	--
81-11-03	1250	3	L.1	--	--	1.7	.07	1.8	--	--
81-12-08	1400	3	L.1	--	--	.9	.05	1.0	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BB0000 LAT. 51D 9M 42S LONG. 115D 40M 13S
BREWSTER CREEK AT HWY 1 NEAR MOUTH, BANFF NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-04-22	1520	3	.03	L.0005 04L	.0005 02L	--	L.01	--	L.04	L.02
80-05-13	1350	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-17	1340	3	.03	L.0005	L.0005	--	.07	--	L.04	.02
80-07-29	1030	3	.04	.0009 04L	.0007 02L	--	--	--	--	--
80-08-19	1350	3	.03	L.0005	.0006	--	L.01	--	L.04	L.02
80-09-16	1420	3	.04	L.0005	.0008	--	L.01	--	L.04	L.02
80-10-07	1415	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-11	1620	3	.03	L.0005	.0008	--	L.01	--	L.04	L.02
80-12-02	1620	3	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-13	1635	3	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-24	1730	3	.04	L.0005	L.0005	--	L.01	--	L.04	.02
81-03-24	1415	3	L.02	L.0005	.0006	--	L.01	--	L.04	L.02
81-04-22	1340	3	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-12	1330	3	L.02	.0005	.0017	--	L.01	--	L.04	L.02
81-06-16	1320	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-07	1340	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-08-11	1445	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-15	1200	3	.03 05D	L.0005	.0006	--	L.01	--	L.04	L.02
81-10-06	1250	3	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-03	1250	3	.04 05D	L.0005	.0006	--	L.01	--	L.04	L.02
81-12-08	1400	3	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-08	1525	417	.5	18.3	265.	378.	8.3	8.0	.7	.4
80-02-05	1535	417	1.0	18.8	--	372.	8.1	7.9	1.3	8.5
80-03-05	1300	417	1.0	22.2	340.	401.	8.2	8.1	.8	3.6
80-04-23	1030	417	5.0	20.0	310.	347.	8.4	8.1	--	.4
80-05-14	0800	417	5.5	17.6	204.	234.	8.2	8.0	2.4	2.0
80-06-18	0810	417	8.5	17.6	207.	223.	7.7	8.1	9.2	--
80-07-28	1150	417	13.0	21.6	--	235.	8.3	8.5	6.0	4.2
80-08-20	0845	417	8.0	16.9	230.	257.	8.1	8.1	1.2	2.3
80-09-17	1010	417	6.0	18.0	250.	276.	7.9	8.0	.8	.9
80-10-07	1820	417	10.0	19.5	251.	280.	8.1	8.4	.7	.6
80-11-12	1145	417	0.0	19.3	291.	335.	8.3	8.0	.7	.8
80-12-15	1145	417	2.0	21.3	300.	355.	8.0	8.1	.6	1.0
81-01-14	1055	417	0.0	20.1	313.	362.	7.8	8.0	.2	1.1
81-02-25	1030	417	.5	22.5	318.	368.	8.3	8.0	.4	.7
81-03-25	0830	417	.5	18.5	345.	364.	8.2	8.0	.8	1.5
81-04-23	0820	417	5.0	20.8	288.	369.	8.3	8.1	1.0	1.5
81-05-13	0820	417	4.0	18.4	295.	219.	8.2	8.1	.9	4.0
81-06-17	1200	417	6.5	17.3	239.	245.	8.0	8.1	1.1	2.7
81-07-08	0845	417	6.0	16.2	198.	201.	8.0	8.1	25.0	8.5
81-08-12	0720	417	11.0	24.8	240.	247.	8.0	8.2	8.0	2.6
81-09-16	0835	417	7.5	23.0	257.	268.	8.1	8.2	2	1.8
81-10-06	1350	417	5.5	23.4	288.	298.	8.3	8.3	4.2	8
81-11-03	1415	417	5.5	16.6	320.	332.	8.3	8.3	6	9
81-12-09	0830	417	0.0	21.8	333.	338.	8.1	8.0	4	7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP MF NO/DL
80-01-08	1525	417	5.	--	1.	--	--	3.	3.	6
80-02-05	1535	417	5.	--	L1.	--	--	14.	L2	L2
80-03-05	1300	417	10.	--	2.	--	--	51.	L2	30
80-04-23	1030	417	5.	--	4.	--	.001	97.	6	6
80-05-14	0800	417	10.	--	4.	--	.001	136.	8	6
80-06-18	0810	417	10.	--	37.	--	.001	390.	296.	66
80-07-28	1150	417	10.	--	5.	--	--	--	--	--
80-08-20	0845	417	5.	--	3.	--	.001	38.	6	6
80-09-17	1010	417	10.	--	3.	--	L.001	248.	10.	2.
80-10-07	1820	417	10.	--	1.	--	.002	2.	2.	L2
80-11-12	1145	417	10.	--	L1.	--	.001	204.	152.	50
80-12-15	1145	417	30.	--	4.	--	L.001	70.	8	20
81-01-14	1055	417	5.	--	2.	--	L.001	38.	2.	86
81-02-25	1030	417	L5.	--	2.	--	L.001	--	174.	61
81-03-25	0830	417	--	5.	1.	--	L.001	4300.	--	40
81-04-23	0820	417	--	5.	2.	--	.001	12.	8	4
81-05-13	0820	417	--	5.	2.	--	L.001	18.	4	L2
81-06-17	1200	417	--	5.	9.	--	L.001	49.	6	2
81-07-08	0845	417	--	5.	13.	--	.001	310.	20.	10.
81-08-12	0720	417	--	5.	4.	--	.001	140.	26.	L2
81-09-16	0835	417	--	5.	2.	--	L.001	44.	8	L2.
81-10-06	1350	417	--	5.	L1.	--	L.001	44.	2.	4
81-11-03	1415	417	--	10.	1.	--	.001	54.	6	4
81-12-09	0830	417	--	5.	L1.	--	L.001	44.	6	2

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101H OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-08	1525	417	12.1	0.	0.0	152.	125.0 06L	49.20	15.8	187.9
80-02-05	1535	417	12.9	0.	0.0	146.	120.0 06L	46.20	17.8	188.6
80-03-05	1300	417	9.6	0.	0.0	149.	122.0 06L	46.50	17.0	186.1
80-04-23	1030	417	11.5	0.	0.0	146.	120.0	43.70	14.4	168.4
80-05-14	0900	417	9.3	0.	0.0	109.	89.0	29.10	10.5	115.9
80-06-18	0910	417	10.3	0.	0.0	105.	86.0	27.60	9.4	107.6
80-07-29	1150	417	10.0	2.	1.6	107	91.0	29.00	10.0	113.6
80-08-20	0845	417	10.4	0.	0.0	118.	97.0	33.80	11.5	131.7
80-09-17	1010	417	10.7	0.	0.0	127.	104.0	33.50	12.8	136.4
80-10-07	1820	417	10.5	0.	.1	124	102.0	35.10	12.1	137.5
80-11-12	1145	417	14.0	0.	0.0	144.	118.0	41.80	14.7	164.9
80-12-15	1145	417	10.6	0.	0.0	144.	118.0	43.30	15.0	169.9
81-01-14	1055	417	11.4	0.	0.0	154.	126.0	45.20	15.2	175.4
81-02-25	1030	417	11.1	0.	0.0	152.	125.0	45.10	16.0	178.5
81-03-25	0830	417	12.3	0.	0.0	150	123.0	45.70	15.3	177.1
81-04-23	0820	417	10.8	0.	0.0	152	125.0	45.50	17.5	185.7
81-05-13	0820	417	10.5	0.	0.0	149	122.0	42.80	14.1	164.9
81-06-17	1200	417	10.3	0.	0.0	117.	96.0	30.80	11.0	122.2
81-07-08	0845	417	10.6	0.	0.0	104.	85.0	25.90	9.3	103.0
81-08-12	0720	417	9.2	0.	0.0	121.	99.0	32.40	11.0	126.2
81-09-16	0835	417	9.4	0.	0.0	124	102.0	33.70	11.9	133.1
81-10-06	1350	417	11.6	0.	0.0	137	112.0	37.80	13.4	149.6
81-11-03	1415	417	11.7	0.	0.0	146.	120.0	45.00	15.5	176.2
81-12-09	0830	417	11.4	0.	0.0	156	128.0	46.90	15.5	180.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-08	1525	417	200	1.9	.4	1.0	15	52	4.7	--
80-02-05	1535	417	194	1.2	.3	.8	.08	51	4.6	--
80-03-05	1300	417	196	2.0	.5	1.7	.17	50.	5.2	--
80-04-23	1030	417	180	1.7	.4	2.0	.12	42	4.1	--
80-05-14	0900	417	118	.7	.3	.7	.06	20.	3.5	--
80-06-18	0910	417	112	.6	.2	.6	.06	19.	3.2	--
80-07-29	1150	417	120	.7	.3	.7	.06	22.	2.8	--
80-08-20	0845	417	134	2.3	.3	.8	.06	24.	3.4	--
80-09-17	1010	417	144	1.1	.3	.9	.09	29.	3.6	--
80-10-07	1820	417	138	1.0	.3	.9	.09	24.	3.4	--
80-11-12	1145	417	173	1.4	.3	1.2	.12	39.	4.1	--
80-12-15	1145	417	177.	1.5	.4	1.4	.11	40.	4.4	--
81-01-14	1055	417	185	.6	.5	1.6	.13	42	4.7	--
81-02-25	1030	417	189.	1.5	.4	1.7	.15	45.	4.5	--
81-03-25	0830	417	186	1.6	.4	1.5	.13	43	4.3	--
81-04-23	0820	417	191	1.4	.4	1.6	.12	45	4.1	--
81-05-13	0820	417	171	1.8	.3	1.7	.08	33.	4.5	--
81-06-17	1200	417	126.	1.3	.3	.9	L.05	20.	3.8	--
81-07-08	0845	417	106	.6	.2	.6	L.05	15.	3.1	--
81-08-12	0720	417	129	.7	.3	.7	.07	21.	3.4	--
81-09-16	0835	417	138	1.0	.3	1.0	.08	26.	3.2	--
81-10-06	1350	417	155.	1.2	.4	1.1	.11	30	3.8	--
81-11-03	1415	417	182.	4.2	.3	1.0	.15	40	4.0	--
81-12-09	0830	417	191	1.5	.4	1.6	.12	44	4.6	--

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07851D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-08	1525	417	.013	013 03L	0.000	.08 10L	--	.12	.04	.16
80-02-05	1535	417	.008	.003 03L	.005	.05 10L	--	.09	.04	.13
80-03-05	1300	417	.023	.023 03L	0.000	.14 10L	--	.22	.06	.28
80-04-23	1030	417	.015	--	--	.10	.13	.16	.07	.23
80-05-14	0900	417	.009	.004	.005	.07	.11	.12	L.01	Q.13
80-06-18	0910	417	.190	L.003	Q.187	.04	.07	.06	.17	.23
80-07-29	1150	417	--	.004 03L	--	.03 10L	--	.05	.05	.10
80-08-20	0945	417	.008	.007	.001	.04	.07	.07	.08	.15
80-09-17	1010	417	.008	L.003	Q.005	.06	.13	.09	.03	.12
80-10-07	1620	417	.005	L.003	Q.002	.04	.09	.10	.18	.28
80-11-12	1145	417	.008	.007	.001	.10	.11	.11	.38	49
80-12-15	1145	417	.015	.011	.004	.12	.17	.18	.04	.22
81-01-14	1055	417	.014	.009	.005	.13	.15	.17	.04	.21
81-02-25	1030	417	.080	.007	.073	.11	.18	.18	.11	.29
81-03-25	0830	417	.013	.006	.007	.10	.16	.16	.07	.23
81-04-23	0820	417	.019	.011	.008	.08	.13	.18	.02	.20
81-05-13	0820	417	.006	.003	.003	.06	.10	.10	.03	.13
81-06-17	1200	417	.008	.003	.005	.05	.09	.08	.02	.10
81-07-08	0845	417	.018	L.003	Q.015	.05	.09	.09	.06	.15
81-08-12	0720	417	.011	L.003	Q.008	.05	.09	.08	.03	.11
81-09-16	0835	417	L.003	L.003	Q0.000	.06	.08	.05	L.01	Q.06
81-10-06	1350	417	.005	.003	.002	.04	.08	.08	L.01	Q.09
81-11-03	1415	417	.013	.005	.008	.05	.08	--	L.01	--
81-12-09	0830	417	.008	.003	.005	.10	.15	.15	L.01	Q.16

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-08	1525	417	--	--	30.0	1.0	19	1.2	--	--
80-02-05	1535	417	--	--	26.0	1.0	20	1.2	--	--
80-03-05	1300	417	--	--	23.0	L1.0	.16	Q1.2	--	--
80-04-23	1030	417	--	--	--	2.0 04D	--	--	--	--
80-05-14	0900	417	--	--	--	2.0 04D	--	--	--	--
80-06-18	0910	417	--	--	--	1.0 04D	--	--	--	--
80-07-29	1150	417	--	--	--	L1.0	41	Q1.4	--	--
80-08-20	0945	417	--	--	--	L1.0 04D	27	Q1.3	--	--
80-09-17	1010	417	--	--	--	L1.0 04D	.09	Q1.1	--	--
80-10-07	1620	417	--	--	--	L1.0 04D	19	Q1.2	--	--
80-11-12	1145	417	--	--	--	L1.0 04D	10	Q1.1	--	--
80-12-15	1145	417	--	--	--	L1.0 04D	23	Q1.2	--	--
81-01-14	1055	417	--	--	--	L1.0 04D	--	--	--	--
81-02-25	1030	417	--	--	--	L1.0 04D	.27	Q1.3	--	--
81-03-25	0830	417	--	--	--	.7	.41	1.1	--	--
81-04-23	0820	417	--	--	--	--	17	--	--	--
81-05-13	0820	417	L.1	--	--	1.5	.27	1.8	--	--
81-06-17	1200	417	L.1	--	--	1.2	.37	1.6	--	--
81-07-08	0845	417	L.1	--	--	9	1.10	2.0	--	--
81-08-12	0720	417	L.1	--	--	.4	.28	.7	--	--
81-09-16	0835	417	L.1	--	--	.8	.18	1.0	--	--
81-10-06	1350	417	L.1	--	--	.7	.08	.8	--	--
81-11-03	1415	417	L.1	--	--	1.6	.16	1.8	--	--
81-12-09	0830	417	L.1	--	--	1.0	.11	1.1	--	--

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-08	1525	417	L.02	L.0005 04L	L.0005 02L	L.01	--	.06	--	L.02
80-02-05	1535	417	L.02	L.0005 04L	L.0005 02L	L.01	--	.05	--	L.02
80-03-05	1300	417	.04	L.0005 04L	L.0005 02L	L.01	--	.08	--	L.02
80-04-23	1030	417	.03	L.0005 04L	L.0005 02L	--	L.01	--	L.04	L.02
80-05-14	0800	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-18	0910	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-07-29	1150	417	.04	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-08-20	0845	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-17	1010	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-07	1620	417	L.02	L.0005	L.0005	--	L.01	--	L.04	.02
80-11-12	1145	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-15	1145	417	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-14	1055	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-25	1030	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-25	0830	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-04-23	0820	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-13	0820	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-06-17	1200	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-08	0845	417	.02	L.0005	L.0005	--	.01	--	L.04	L.02
81-08-12	0720	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-16	0835	417	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-06	1350	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-03	1415	417	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-09	0830	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-08	1525	417	L.001	--	--	L.002	--	--	--	--
80-02-05	1535	417	L.001	--	--	L.002	--	--	--	--
80-03-05	1300	417	L.001	--	--	L.002	--	--	--	--
80-04-23	1030	417	--	.002	--	--	.003	--	.004	--
80-05-14	0900	417	--	.002	--	--	L.002	--	.008	--
80-06-18	0910	417	--	L.001	--	--	.005	--	.006	--
80-07-29	1150	417	--	.003	--	--	L.002	--	.003	--
80-08-20	0945	417	--	L.001	--	--	L.002	--	L.002	--
80-09-17	1010	417	--	L.001	--	--	L.002	--	L.002	--
80-10-07	1620	417	--	L.001	--	--	L.002	--	.003	--
80-11-12	1145	417	--	L.001	--	--	L.002	--	.009	--
80-12-15	1145	417	--	L.001	--	--	L.002	--	L.002	--
81-01-14	1055	417	--	L.001	--	--	.008	--	.013	--
81-02-25	1030	417	--	L.001	--	--	L.002	--	.003	--
81-03-25	0830	417	--	L.001	--	--	L.002	--	L.002	--
81-04-23	0820	417	--	L.001	--	--	L.002	--	--	--
81-05-13	0820	417	--	L.001	--	--	.004	--	--	--
81-06-17	1200	417	--	.001	--	--	L.002	--	--	--
81-07-08	0845	417	--	L.001	--	--	L.002	--	.004	--
81-08-12	0720	417	--	L.001	--	--	L.002	--	L.002	--
81-09-16	0835	417	--	L.001	--	--	L.002	--	L.002	--
81-10-06	1350	417	--	L.001	--	--	L.002	--	L.002	--
81-11-03	1415	417	--	L.001	--	--	L.002	--	L.002	--
81-12-09	0830	417	--	L.001	--	--	L.002	--	L.002	--

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-08	1525	417	.001	--	.001	--	--	--	L.001	--
80-02-05	1535	417	L.001	--	.001	--	--	--	L.001	--
80-03-05	1300	417	.001	--	L.001	--	--	--	L.001	--
80-04-23	1030	417	--	.003	--	.003	--	--	--	L.001
80-05-14	0900	417	--	.001	--	.002	--	--	--	.001
80-06-18	0910	417	--	.002	--	.008	--	--	--	L.001
80-07-29	1150	417	--	.001	--	.001	--	--	--	L.001
80-08-20	0945	417	--	L.001	--	L.001	--	--	--	L.001
80-09-17	1010	417	--	L.001	--	.008	--	--	--	L.001
80-10-07	1620	417	--	.006	--	.006	--	--	--	L.001
80-11-12	1145	417	--	.003	--	.009	--	--	--	L.001
80-12-15	1145	417	--	.001	--	.002	--	--	--	L.001
81-01-14	1055	417	--	.003	--	.002	--	--	--	.001
81-02-25	1030	417	--	L.001	--	L.001	--	--	--	L.001
81-03-25	0830	417	--	.001	--	.003	--	--	--	L.001
81-04-23	0820	417	--	.004	--	--	--	--	--	L.001
81-05-13	0820	417	--	.004	--	--	--	--	--	.001
81-06-17	1200	417	--	L.001	--	.002	--	--	--	L.001
81-07-08	0845	417	--	.001	--	.011	--	--	--	L.001
81-08-12	0720	417	--	L.001	--	L.001	--	--	--	L.001
81-09-16	0835	417	--	L.001	--	.003	--	--	--	L.001
81-10-06	1350	417	--	.004	--	.002	--	--	--	L.001
81-11-03	1415	417	--	.002	--	.002	--	--	--	L.001
81-12-09	0830	417	--	L.001	--	.002	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-08	1525	417	L.05	--	L.004	--	L.001	L.001	--	--
80-02-05	1535	417	L.05	--	L.004	--	.001	L.001	--	--
80-03-05	1300	417	L.05	--	L.004	--	.001	L.001	--	--
80-04-23	1030	417	--	L.05	--	L.004	.002	L.001	--	--
80-05-14	0900	417	--	L.05	--	.004	L.001	L.001	--	--
80-06-18	0910	417	--	.07	--	L.004	L.001	.002	--	--
80-07-29	1150	417	--	L.05	--	L.004	.001	L.001	--	--
80-08-20	0945	417	--	L.05	--	L.004	L.001	L.001	--	--
80-09-17	1010	417	--	L.05	--	L.004	L.001	.001	--	--
80-10-07	1620	417	--	L.05	--	L.004	L.001	L.001	--	--
80-11-12	1145	417	--	.14	--	L.004	.002	L.001	--	--
80-12-15	1145	417	--	L.05	--	L.004	.003	.002	--	--
81-01-14	1055	417	--	L.05	--	L.004	.005	L.001	--	--
81-02-25	1030	417	--	L.05	--	L.004	.001	L.001	--	--
81-03-25	0830	417	--	L.05	--	L.004	.003	L.001	--	--
81-04-23	0820	417	--	.07	--	L.004	.002	L.001	--	--
81-05-13	0820	417	--	L.05	--	.006	.002	L.001	--	--
81-06-17	1200	417	--	L.05	--	.004	L.001	L.001	--	--
81-07-08	0845	417	--	L.05	--	L.004	.001	L.001	--	--
81-08-12	0720	417	--	L.05	--	L.004	.003	L.001	--	--
81-09-16	0835	417	--	L.05	--	L.004	L.001	L.001	--	--
81-10-06	1350	417	--	L.05	--	L.004	L.001	L.001	--	--
81-11-03	1415	417	--	L.05	--	L.004	.002	.001	--	--
81-12-09	0830	417	--	L.05	--	L.004	L.001	L.001	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-08	1525	417	--	--	L.001	L.001	.007	L.001	L.002	L.001
80-02-05	1535	417	--	--	L.001	L.001	.006	L.001	L.002	L.001
80-03-05	1300	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-04-23	1030	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-05-14	0900	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-06-18	0910	417	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-07-29	1150	417	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-08-20	0945	417	--	--	L.001	L.001	.002	L.001	L.002	L.001
80-09-17	1010	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-10-07	1620	417	--	--	L.001	L.001	.002	L.001	L.002	L.001
80-11-12	1145	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-12-15	1145	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-01-14	1055	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-02-25	1030	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-03-25	0830	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-04-23	0820	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-05-13	0820	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-06-17	1200	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-07-08	0845	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-08-12	0720	417	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-09-16	0835	417	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-10-06	1350	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-11-03	1415	417	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-12-09	0830	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-08	1525	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-02-05	1535	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-03-05	1300	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-04-23	1030	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-14	0900	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-06-18	0910	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-07-29	1150	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-20	0945	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-09-17	1010	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-07	1620	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-11-12	1145	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-12-15	1145	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-14	1055	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-02-25	1030	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-03-25	0830	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-04-23	0820	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-13	0820	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-06-17	1200	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-07-08	0845	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-12	0720	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-09-16	0835	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-06	1350	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-11-03	1415	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-12-09	0830	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-08	1525	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-02-05	1535	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-03-05	1300	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-04-23	1030	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-14	0900	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-06-18	0910	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-07-29	1150	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-20	0945	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-09-17	1010	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-07	1620	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-11-12	1145	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-12-15	1145	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-14	1055	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-02-25	1030	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-03-25	0830	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-04-23	0820	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-13	0820	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-06-17	1200	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-07-08	0845	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-12	0720	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-09-16	0835	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-06	1350	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-11-03	1415	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-12-09	0830	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-08	1525	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-02-05	1535	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-03-05	1300	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-04-23	1030	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-14	0900	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-06-18	0910	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-07-29	1150	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-20	0945	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-09-17	1010	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-10-07	1620	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-11-12	1145	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-12-15	1145	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-01-14	1055	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-02-25	1030	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-03-25	0830	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-04-23	0820	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-05-13	0820	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-06-17	1200	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-08	0845	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-12	0720	417	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-09-16	0835	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-10-06	1350	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-11-03	1415	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-12-09	0830	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BH0017   LAT. 51D 10M 28S   LONG. 114D 28M 0S
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-16	1600	479	1.5	20.7	--	358.	8.0	8.0	.8	1.0
80-02-06	1150	479	1.5	23.5	--	370.	8.2	7.8	.2	2.5
80-03-05	1110	479	1.5	21.9	340.	405.	8.4	8.2	.6	.9
80-04-23	1255	479	6.5	20.3	313.	345.	8.5	8.5	--	.2
80-05-14	1115	479	10.0	17.8	239.	268.	8.5	8.3	3.8	4.5
80-06-18	1115	479	11.0	17.2	244.	269.	8.2	8.2	5.2	11.0
80-07-29	1330	479	16.0	21.8	--	277.	8.2	8.4	3.0	2.2
80-08-20	1215	479	13.0	17.5	265.	291.	8.3	8.4	.9	1.2
80-09-17	1215	479	8.0	18.0	277.	311.	--	8.3	1.0	1.2
80-10-08	1015	479	7.5	19.3	285.	322.	8.2	8.3	.5	.6
80-11-12	1345	479	.5	19.3	288.	335.	8.4	8.3	.3	1.6
80-12-15	1335	479	2.0	21.5	298.	353.	8.0	8.3	1.1	2.1
81-01-14	1255	479	0.0	20.4	294.	339.	8.0	8.3	.3	2.0
81-02-25	1300	479	0.0	22.0	292.	348.	8.6	8.3	.4	2.0
81-03-25	1050	479	1.5	18.4	323.	339.	8.6	8.4	.4	1.0
81-04-23	1040	479	7.0	21.1	335.	344.	8.6	8.5	.7	1.2
81-05-13	1030	479	7.0	19.3	309	335.	8.3	8.2	6.0	5.0
81-06-17	1045	479	9.5	18.1	288.	298.	8.2	8.3	5.4	5.5
81-07-08	1045	479	12.0	18.3	267.	271.	8.0	8.4	4.6	4.8
81-08-12	1000	479	14.0	25.2	267.	275.	8.1	8.3	8.0	2.7
81-09-16	1045	479	12.0	23.1	288.	294.	8.3	8.4	.1	1.3
81-10-07	0950	479	6.0	23.4	318.	328.	8.3	8.3	.5	.7
81-11-04	0930	479	3.0	14.6	329.	347.	8.3	8.2	1.3	2.2
81-12-09	1010	479	0.0	22.3	342.	346.	8.1	8.2	.7	.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL UNITS	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-16	1600	479	5.	--	L1.	--	--	L2.	L2.	L2.
80-02-06	1150	479	5.	--	L1.	--	--	L2.	L2.	L2.
80-03-05	1110	479	5	--	3.	--	--	L2.	L2.	L2.
80-04-23	1255	479	5	--	1	--	.006	L2.	L2.	7.
80-05-14	1115	479	10.	--	6	--	.004	L2.	L2.	L2.
80-06-18	1115	479	10.	--	11	--	.005	33.	16.	15.
80-07-29	1330	479	10.	--	2.	--	--	--	--	--
80-08-20	1215	479	5	--	3	--	.001	2.	L2.	5.
80-09-17	1215	479	10.	--	4.	--	L.001	2.	2	L2.
80-10-08	1015	479	10	--	L1.	--	.001	58.	10.	7.
80-11-12	1345	479	20.	--	L1.	--	.002	2.	L2.	L2.
80-12-15	1335	479	30.	--	5.	--	L.001	8.	L2.	L2.
81-01-14	1255	479	5.	--	1.	--	L.001	L2.	L2.	L2.
81-02-25	1300	479	L5.	--	2.	--	.005	L2.	L2.	L2.
81-03-25	1050	479	--	5.	L1.	--	.001	L1.	L1.	L1.
81-04-23	1040	479	--	10.	2.	--	.004	L1.	L1.	L1.
81-05-13	1030	479	--	10.	6.	--	.004	20.	16.	5.
81-06-17	1045	479	--	10.	7.	--	.002	30.	1.	21.
81-07-08	1045	479	--	10.	7.	--	.004	38.	17.	11.
81-08-12	1000	479	--	5.	1.	--	.002	20.	5.	L2.
81-09-16	1045	479	--	5.	L1.	--	.001	3.	L1.	1.
81-10-07	0950	479	--	5.	L1.	--	L.001	12.	4.	4.
81-11-04	0930	479	--	10.	1.	--	.001	18.	17.	L1.
81-12-09	1010	479	--	5.	L1.	--	L.001	10.	4	5

STATION - 00AL05BH0017 LAT. 51D 10M 26S LONG. 114D 28M 05
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101H OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-16	1800	479	13.8	0.	0.0	139.	114.0 06L	48.00	14.2	178.3
80-02-06	1150	479	13.5	0.	0.0	165.	135.0 06L	45.80	15.2	176.9
80-03-05	1110	479	8.1	0.	0.0	168.	138.0 06L	43.50	16.2	175.3
80-04-23	1255	479	13.3	0.	.3	158.	130.0	47.00	13.0	170.9
80-05-14	1115	479	9.8	0.	0.0	124.	102.0	34.20	10.3	127.8
80-06-18	1115	479	10.5	0.	0.0	126.	103.0	35.00	10.5	130.6
80-07-29	1330	479	10.4	2.	1.7	124.	105.0	35.50	11.2	134.8
80-08-20	1215	479	10.1	0.	0.0	135.	111.0	39.00	12.4	148.4
80-09-17	1215	479	10.6	0.	0.0	140.	115.0	39.00	12.5	148.9
80-10-08	1015	479	10.4	0.	0.0	149.	122.0	41.50	12.7	155.9
80-11-12	1345	479	14.5	0.	0.0	152.	125.0	43.80	13.5	165.0
80-12-15	1335	479	11.9	0.	0.0	159.	130.0	45.80	13.8	171.2
81-01-14	1255	479	12.2	0.	0.0	151.	124.0	43.40	11.9	157.4
81-02-25	1300	479	11.2	0.	0.0	152.	125.0	46.00	12.5	166.3
81-03-25	1050	479	13.9	0.	0.0	148.	121.0	45.20	13.0	166.4
81-04-23	1040	479	12.0	4.	3.0	144.	124.0	48.00	13.6	175.9
81-05-13	1030	479	10.8	0.	0.0	157.	129.0	46.80	12.7	169.2
81-06-17	1045	479	10.2	0.	0.0	144.	118.0	40.50	12.0	150.5
81-07-08	1045	479	9.6	0.	0.0	133.	109.0	36.70	11.4	138.6
81-08-12	1000	479	9.7	0.	0.0	134.	110.0	38.20	11.8	144.0
81-09-16	1045	479	9.5	0	.2	141.	116.0	39.90	12.2	149.9
81-10-07	0850	479	10.8	0	0.0	160.	131.0	42.10	13.4	160.3
81-11-04	0830	479	11.7	0.	0.0	166.	136.0	46.50	15.7	180.8
81-12-08	1010	479	12.5	0	0.0	174.	143.0	44.80	14.2	170.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-16	1800	479	180.	1.5	4	1.3	.15	42	4.0	--
80-02-06	1150	479	194.	1.5	4	1.2	15	45	3.6	--
80-03-05	1110	479	194.	2.0	5	1.3	16	43	4.2	--
80-04-23	1255	479	179.	2.8	8	1.4	11	32	3.7	--
80-05-14	1115	479	137.	.9	3	8	08	26	3.4	--
80-06-18	1115	479	133.	1.2	4	7	08	20	3.6	--
80-07-29	1330	479	143.	1.0	3	9	08	28	3.0	--
80-08-20	1215	479	152.	1.2	3	8	07	28	3.6	--
80-09-17	1215	479	159.	1.3	3	1.0	10	32	3.4	--
80-10-08	1015	479	161.	1.7	5	1.0	13	27	3.2	--
80-11-12	1345	479	173.	1.9	4	1.1	14	34	3.2	--
80-12-15	1335	479	175.	1.3	4	1.0	13	31	3.9	--
81-01-14	1255	479	171.	1.3	4	1.0	14	35	3.8	--
81-02-25	1300	479	176.	1.6	4	1.2	16	36	3.7	--
81-03-25	1050	479	175.	1.5	4	9	15	38	3.7	--
81-04-23	1040	479	183.	2.5	5	1.2	15	40	2.9	--
81-05-13	1030	479	179.	2.4	5	1.3	L.05	34	4.3	--
81-06-17	1045	479	155.	2.0	4	1.1	10	24	4.4	--
81-07-08	1045	479	141.	1.2	3	9	09	21	3.6	--
81-08-12	1000	479	145.	1.2	3	9	14	23	3.6	--
81-09-16	1045	479	155.	1.1	4	9	10	28	3.0	--
81-10-07	0850	479	169.	2.5	5	1.2	12	28	3.0	--
81-11-04	0830	479	189.	3.9	5	3.4	16	34	3.2	--
81-12-08	1010	479	191.	2.3	6	1.5	13	38	3.8	-

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BH0017 LAT. 51D 10M 28S LONG. 114D 28M 05
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-16	1600	479	.013	.009 03L	.004	.10 10L	--	.15	.04	.19
80-02-06	1150	479	L .003	L .003 03L	Q0.000	.08 10L	--	.15	.03	.18
80-03-06	1110	479	L .003	L .003 03L	Q0.000	.09 10L	--	.12	.04	.16
80-04-23	1255	479	.005	--	--	.03	.11	.13	.09	.22
80-05-14	1115	479	.010	.007	.003	.06	.12	.14	.14	.28
80-06-18	1115	479	.019	.007	.012	.06	.10	.11	.10	.21
80-07-29	1330	479	--	L .003	--	.02	--	.10	.04	.14
80-08-20	1215	479	.004	L .003	Q .001	.02	.04	.05	.06	.11
80-09-17	1215	479	.003	L .003	Q0.000	.01	.08	.10	.01	.11
80-10-08	1015	479	L .003	L .003	Q0.000	.02	.07	.07	.09	.16
80-11-12	1345	479	L .003	L .003	Q0.000	.04	.05	.07	.04	.11
80-12-16	1335	479	.004	.003	.001	.07	.12	.12	.05	.17
81-01-14	1255	479	.003	.003	0.000	.08	.11	.10	.04	.14
81-02-25	1300	479	L .003	L .003	Q0.000	.01	.07	.07	.09	.16
81-03-25	1050	479	L .003	L .003	Q0.000	.02	.06	.06	.05	.11
81-04-23	1040	479	.004	L .003	Q .001	L .01	.08	.11	L .01	Q .12
81-05-13	1030	479	.007	L .003	Q .004	.04	.09	.09	.05	.14
81-06-17	1045	479	.007	L .003	Q .004	.06	.12	.12	.04	.16
81-07-08	1045	479	.010	.003	.007	.04	.07	.07	.05	.12
81-08-12	1000	479	.004	L .003	Q .001	.05	.10	.09	.04	.13
81-09-16	1045	479	L .003	L .003	Q0.000	.04	--	.08	L .01	Q .09
81-10-07	0850	479	.004	L .003	Q .001	.03	.09	.08	L .01	Q .09
81-11-04	0830	479	.008	.003	.005	.05	.09	.09	L .01	Q .10
81-12-09	1010	479	L .003	L .003	Q0.000	.08	.11	.11	L .01	Q .12

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-16	1600	479	L .1	--	26.0	1.0	.17	1.2	L .005	.01 05P
80-02-06	1150	479	L .1	--	28.0	1.0	.12	1.1	--	--
80-03-06	1110	479	L .1	--	25.0	L1.0	.07	Q1.1	--	--
80-04-23	1255	479	--	--	--	2.0 04D	--	--	--	--
80-05-14	1115	479	L .1	--	--	2.0 04D	--	--	--	--
80-06-18	1115	479	L .1	--	--	1.0 04D	.59	1.6	--	--
80-07-29	1330	479	L .1	--	--	L1.0 04D	.24	Q1.2	--	--
80-08-20	1215	479	L .1	--	--	1.0 04D	.23	1.2	--	--
80-09-17	1215	479	L .1	--	--	--	.10	--	--	--
80-10-08	1015	479	L .1	--	--	L1.0 04D	.15	Q1.2	--	--
80-11-12	1345	479	L .1	--	--	L1.0 04D	.12	Q1.1	--	--
80-12-16	1335	479	L .1	--	--	L1.0 04D	.24	Q1.2	--	--
81-01-14	1255	479	L .1	--	--	L1.0 04D	.14	Q1.1	--	--
81-02-25	1300	479	L .1	--	--	L1.0 04D	.26	Q1.3	--	--
81-03-25	1050	479	L .1	--	--	.8	.18	1.0	--	--
81-04-23	1040	479	L .1	--	--	--	.21	--	--	--
81-05-13	1030	479	L .1	--	--	1.8	.44	2.2	--	--
81-06-17	1045	479	L .1	--	--	2.3	.36	2.7	--	--
81-07-08	1045	479	L .1	--	--	1.3	.36	1.7	--	--
81-08-12	1000	479	L .1	--	--	.8	.18	1.0	--	--
81-09-16	1045	479	L .1	--	--	.8	.21	1.0	--	--
81-10-07	0850	479	L .1	--	--	1.0	.16	1.2	--	--
81-11-04	0830	479	L .1	--	--	1.0	.24	1.2	--	--
81-12-09	1010	479	L .1	--	--	1.7	.09	1.8	--	--

STATION - 00AL05BH0017 LAT. 51D 10M 28S LONG. 114D 28M 0S
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-16	1600	479	L .02	L .0005 04L	L .0005 02L	L .01	--	.04	--	L .02
80-02-06	1150	479	--	--	--	--	--	--	--	.03
80-03-05	1110	479	--	--	--	--	--	--	--	L .02
80-04-23	1255	479	.03	L .0005 04L	L .0005 02L	--	L .01	--	L .04	L .02
80-05-14	1115	479	.03	L .0005	L .0005	--	L .01	--	L .04	L .02
80-06-18	1115	479	.03	L .0005	L .0005	--	L .01	--	L .04	.02
80-07-29	1330	479	.04	L .0005	L .0005	--	--	--	--	L .02
80-08-20	1215	479	.03	L .0005	L .0005	--	L .01	--	L .04	L .02
80-09-17	1215	479	.04	L .0005	L .0005	--	L .01	--	L .04	L .02
80-10-08	1015	479	L .02	L .0005	L .0005	--	L .01	--	L .04	L .02
80-11-12	1345	479	L .02	L .0005	L .0005	--	L .01	--	L .04	L .02
80-12-15	1335	479	.04	L .0005	L .0005	--	L .01	--	L .04	L .02
81-01-14	1255	479	.04	L .00U5	L .0005	--	L .01	--	L .04	L .02
81-02-25	1300	479	.03	L .0005	L .0005	--	L .01	--	L .04	.03
81-03-25	1050	479	L .02	L .0005	L .0005	--	L .01	--	L .04	.02
81-04-23	1040	479	L .02	L .0005	L .0005	--	L .01	--	L .04	.02
81-05-13	1030	479	L .02	L .0005	.0010	--	L .01	--	L .04	L .02
81-06-17	1045	479	.03	L .0005	L .0005	--	L .01	--	L .04	L .02
81-07-08	1045	479	.03	L .0005	.0005	--	L .01	--	L .04	L .02
81-08-12	1000	479	L .02	L .0005	.0005	--	L .01	--	L .04	L .02
81-09-16	1045	479	.03 05D	L .0005	L .0005	--	L .01 04L	--	L .04	L .02
81-10-07	0950	479	.03 05D	L .0005	L .0005	--	L .01	--	L .04	L .02
81-11-04	0830	479	.04 05D	L .0005	L .0005	--	L .01	--	L .04	.04
81-12-08	1010	479	.04 05[illegible]	L .0005	.0009	--	L .01	--	L .04	L .02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE CR MG/L	27302P COBALT EXTRBLE CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE AG MG/L
80-01-16	1600	479	L .001	--	L .015	L .002	--	L .002	--	L .004
80-05-14	1115	479	--	.002	--	--	.003	--	.009	L .004
80-08-20	1215	479	--	L .001	--	--	L .002	--	L .002	L .004
80-10-08	1015	479	--	L .001	--	--	L .002	--	L .002	L .004
81-01-14	1255	479	--	.021	--	--	L .002	--	.013	L .004
81-05-13	1030	479	--	L .001	--	--	.004	--	--	L .004
81-08-12	1000	479	--	L .001	--	--	L .002	--	L .002	L .004
81-10-07	0950	479	--	L .001	--	--	L .002	--	L .002	L .004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE SR MG/L	42301P MOLYBDENUM EXTRBLE MO MG/L	48302P CADMIUM EXTRBLE CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-16	1600	479	.002	--	.001	--	.19	L .10	L .001	--
80-05-14	1115	479	--	.001	--	.002	--	--	--	.001
80-08-20	1215	479	--	L .001	--	.001	--	--	--	L .001
80-10-08	1015	479	--	L .001	--	.002	--	--	--	L .001
81-01-14	1255	479	--	.001	--	.012	--	--	--	L .001
81-05-13	1030	479	--	.003	--	--	--	--	--	L .001
81-08-12	1000	479	--	L .001	--	.001	--	--	--	L .001
81-10-07	0950	479	--	.001	--	.003	--	--	--	L .001

STATION - 00AL05BH0017 LAT. 51D 10M 28S LONG. 114D 28M 05
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-16	1600	479	L.05	--	L.004	--	--	L.001	--	--
80-02-06	1150	479	--	--	--	--	--	L.001	--	--
80-03-05	1110	479	--	--	--	--	--	L.001	--	--
80-04-23	1255	479	--	--	--	--	--	.001	--	--
80-05-14	1115	479	--	L.05	--	L.004	--	.001	--	--
80-06-16	1115	479	--	--	--	--	--	.001	--	--
80-07-29	1330	479	--	--	--	--	--	.001	--	--
80-08-20	1215	479	--	L.05	--	L.004	--	L.001	--	--
80-09-17	1215	479	--	--	--	--	--	.002	--	--
80-10-08	1015	479	--	L.05	--	L.004	--	L.001	--	--
80-11-12	1345	479	--	--	--	--	--	L.001	--	--
80-12-15	1335	479	--	--	--	--	--	.002	--	--
81-01-14	1255	479	--	.05	--	L.004	--	L.001	--	--
81-02-25	1300	479	--	--	--	--	--	L.001	--	--
81-03-25	1050	479	--	--	--	--	--	L.001	--	--
81-04-23	1040	479	--	--	--	--	--	L.001	--	--
81-05-13	1030	479	--	.06	--	.007	--	L.001	--	--
81-06-17	1045	479	--	--	--	--	--	L.001	--	--
81-07-08	1045	479	--	--	--	--	--	L.001	--	--
81-08-12	1000	479	--	L.05	--	L.004	--	L.001	--	--
81-09-16	1045	479	--	--	--	--	--	L.001	--	--
81-10-07	0950	479	--	.05	--	L.004	--	L.001	--	--
81-11-04	0830	479	--	--	--	--	--	.002	--	--
81-12-09	1010	479	--	--	--	--	--	L.001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-16	1600	479	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-05-14	1115	479	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-08-20	1215	479	--	--	L.001	L.001	.006	.001	L.002	L.001
80-10-08	1015	479	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-01-14	1255	479	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-05-13	1030	479	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-08-12	1000	479	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-10-07	0950	479	--	--	L.001	L.001	.004	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-16	1600	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-14	1115	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-20	1215	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-08	1015	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-14	1255	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-13	1030	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-12	1000	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-07	0950	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BH0017 LAT. 51D 10M 28S LONG. 114D 28M 0S
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-16	1800	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
80-05-14	1115	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
80-08-20	1315	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
80-10-08	1015	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
81-01-14	1255	479	L .002	L .001	L .003	L .002	--	--	--	--
81-05-13	1030	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
81-08-12	1000	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
81-10-07	0850	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-16	1800	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
80-05-14	1115	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
80-08-20	1215	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
80-10-08	1015	479	L .002	L .004	L .2	--	L .002	L .002	L .005	--
81-01-14	1255	479	--	--	L .2	--	L .002	L .002	L .005	L .002
81-05-13	1030	479	L .002	L .004	--	L .002	L .002	--	L .005	L .002
81-08-12	1000	479	L .002	L .004	--	L .002	L .002	--	L .005	L .002
81-10-07	0850	479	L .002	L .004	--	L .002	L .002	--	L .005	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-16	1800	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
80-05-14	1115	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
80-08-20	1215	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
80-10-08	1015	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-01-14	1255	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-05-13	1030	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-08-12	1000	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-10-07	0850	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-16	1800	479	L .02	L .02	L .02	L .02	L .02
80-05-14	1115	479	L .02	L .02	L .02	L .02	L .02
80-08-20	1215	479	L .02	L .02	L .02	L .02	L .02
80-10-08	1015	479	L .02	L .02	L .02	L .02	L .02
81-01-14	1255	479	L .02	L .02	L .02	L .02	L .02
81-05-13	1030	479	L .02	L .02	L .02	L .02	L .02
81-08-12	1000	479	L .02	L .02	L .02	L .02	L .02
81-10-07	0850	479	L .02	L .02	L .02	L .02	L .02

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05BN0001
BOW RIVER NEAR MOUTH, ALBERTA

LAT. 50D 2M 47S LONG. 111D 36M 28S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-21	1520	479	1.0	22.4	--	494.	7.8	7.7	1.8	4.0
80-02-18	1520	479	.5	21.5	--	471.	8.1	7.9	1.6	2.6
80-03-17	1610	479	1.5	17.6	390.	466.	7.9	7.8	4.0	7.7
80-04-14	1745	479	8.5	20.4	333.	382.	--	7.5	--	43.0
80-05-12	1900	479	15.0	16.2	310.	343.	8.9	8.9	27.0	21.0
80-06-09	1540	479	17.5	22.8	290.	332	--	8.2	99.0	58.0
80-07-14	1445	479	22.0	20.0	330.	374.	8.8	8.8	4.0	2.9
80-08-05	1440	479	19.0	20.7	310.	358.	8.9	8.8	8.0	5.5
80-09-15	1415	479	11.0	21.1	321.	397.	8.7	8.5	6.0	3.6
80-10-20	1520	479	8.0	19.8	343.	405.	8.3	8.2	--	28.0
80-11-25	1530	479	1.5	20.2	370.	443.	8.7	8.0	5.0	4.1
80-12-08	1545	479	0.0	22.1	430	529.	8.2	8.0	2.0	1.7
81-01-19	1530	479	1.0	18.6	355.	420.	8.1	7.9	6.0	5.1
81-02-16	1530	479	1.0	20.0	356.	430.	8.1	7.9	10.0	4.7
81-03-09	1515	479	3.2	21.3	331.	408.	8.3	8.3	10.0	6.7
81-04-07	1245	479	6.5	22.2	350.	417	8.4	8.2	28.0	20.0
81-05-11	1420	479	12.0	18.4	348.	436	8.9	8.8	8.0	3.8
81-06-01	1750	479	15.0	18.7	284.	306	8.1	8.0	G200.0	110.0
81-07-01	1515	479	18.0	18.3	--	318	8.8	8.8	25.0	9.6
81-08-17	1400	479	23.0	24.4	291	306	8.8	8.8	12.0	5.8
81-09-21	1300	479	13.0	18.0	399	325	8.8	8.8	8.8	2.4
81-10-19	1315	479	8.5	15.3	--	430	8.7	8.4	--	4.8
81-11-16	1400	479	1.5	19.0	431.	417	8.4	8.2	--	17.0
81-12-15	1515	479	0.0	20.4	468	442	8.2	8.1	--	1.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL UNITS	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-21	1520	479	5	--	9	--	--	10.	3.	6.
80-02-18	1520	479	20	--	5	--	--	5	4.	2.
80-03-17	1610	479	10	--	10	--	--	100.	36.	7.
80-04-14	1745	479	70	--	213	--	.021	--	31	83.
80-05-12	1900	479	20	--	34	--	.015	--	2	--
80-06-09	1540	479	80	--	137	--	.004	--	78	125.
80-07-14	1445	479	20	--	6	--	.001	--	13	121.
80-08-05	1440	479	30	--	10	--	.003	--	--	--
80-09-15	1415	479	20	--	6	--	.004	--	55.	95.
80-10-20	1520	479	80	--	82	--	.007	--	105.	G80.
80-11-25	1530	479	20	--	6.	--	.001	4	3.	5.
80-12-08	1545	479	20	--	1	--	.001	3.	2.	L2.
81-01-19	1530	479	5	--	11.	--	L.001	L2.	L2	3.
81-02-16	1530	479	10	--	11.	--	.001	--	14.	880.
81-03-09	1515	479	20	--	21	--	.005	L2.	L2	2.
81-04-07	1245	479	--	20	41.	--	.005	L2	L2	2.
81-05-11	1420	479	--	10	4	--	.040	8.	L2.	14.
81-06-01	1750	479	--	10	253.	--	.020	--	110.	30.
81-07-01	1515	479	--	20	31.	--	.017	--	L2.	32.
81-08-17	1400	479	--	10.	15.	--	.009	--	70.	34.
81-09-21	1300	479	--	20	4	--	.008	--	18.	37.
81-10-19	1315	479	--	20	7 01R	--	.020 17T	L2. 02U	L2 12U	6 03U
81-11-16	1400	479	--	10	35.	--	.006	--	6.	15.
81-12-15	1515	479	--	10	2	--	.002	--	16	6

STATION - 00AL05BM0001 LAT. 50D 2M 47S LONG. 111D 38M 26S
BOW RIVER NEAR MOUTH, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-21	1520	479	14.5	0.	0.0	152.	125.0 OBL	58.00	17.5	219.4
80-02-18	1520	479	16.3	0.	0.0	146.	120.0 OBL	54.90	17.9	210.8
80-03-17	1610	479	12.7	0.	0.0	149.	122.0 OBL	49.50	22.4	215.8
80-04-14	1745	479	10.6	0.	0.0	134.	110.0	35.40	12.1	138.2
80-05-12	1900	479	--	10	8.1	136	128.0	42.20	13.0	158.9
80-06-09	1540	479	8.3	0.	0.0	144.	118.0	39.00	11.7	145.6
80-07-14	1445	479	10.0	11	9.2	102.	102.0	31.90	15.5	143.5
80-08-05	1440	479	9.9	11	9.3	104	104.0	32.60	16.3	148.5
80-09-15	1415	479	10.4	0.	.2	131	108.0	30.20	17.8	148.7
80-10-20	1520	479	11.3	0.	0.0	163	134.0	45.40	14.7	173.9
80-11-25	1530	479	13.8	0	0.0	177	145.0	53.30	17.1	203.5
80-12-08	1545	479	10.4	0.	0.0	216	177.0	63.20	19.3	237.3
81-01-19	1530	479	12.6	0.	0.0	172	141.0	48.40	14.8	181.8
81-02-16	1530	479	12.0	0	0.0	174	143.0	52.20	15.1	192.5
81-03-09	1515	479	13.5	0	0.0	157	129.0	48.70	13.0	175.1
81-04-07	1245	479	12.1	0	0.0	165	135.0	48.20	14.0	178.0
81-05-11	1420	479	13.6	11	9.0	148	139.0	51.20	15.6	192.1
81-06-01	1750	479	8.5	0	0.0	146	120.0	41.30	11.4	150.1
81-07-01	1515	479	10.3	2.	1.5	145	122.0	40.00	13.0	153.4
81-08-17	1400	479	9.1	9	7.8	125	118.0	38.30	13.3	150.4
81-09-21	1300	479	10.1	7	5.8	111	103.0	30.80	15.7	141.5
81-10-19	1315	479	11.8	0	.2	164	135.0	41.80	19.1	183.0
81-11-16	1400	479	12.1	0	0.0	172	141.0	50.10	16.7	193.9
81-12-15	1515	479	13.5	0	0.0	205	168.0	59.10	18.3	222.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-21	1520	479	224	6.6	1.2	7.9	13	53	3.3	--
80-02-18	1520	479	219	9.6	1.4	7.9	14	53	1.8	--
80-03-17	1610	479	217	9.6	1.4	8.2	20	49	3.8	--
80-04-14	1745	479	192	15.0	3.6	5.2	11	50	4.2	--
80-05-12	1900	479	186	5.8	1.0	3.4	15	43	5	--
80-06-09	1540	479	164	6.0	1.0	1.9	12	29	5.0	--
80-07-14	1445	479	190	16.0	8	3.7	16	60	5	--
80-08-05	1440	479	181	12.0	1.5	3.8	15	52	6	--
80-09-15	1415	479	209	18.0	1.8	4.9	15	70	1.1	--
80-10-20	1520	479	204	8.3	1.3	5.0	12	47	2.0	--
80-11-25	1530	479	225	9.8	1.3	6.4	21	52	1.6	--
80-12-08	1545	479	271	13.0	1.8	8.8	14	56	2.8	--
81-01-19	1530	479	208	6.5	1.1	5.2	16	43	4.2	--
81-02-16	1530	479	220	7.5	1.2	5.3	18	49	4.0	--
81-03-09	1515	479	203	9.6	1.2	6.0	16	45	2.1	--
81-04-07	1245	479	209	9.9	1.2	5.1	L 05	48	1.8	--
81-05-11	1420	479	240	19.0	1.6	6.0	13	63	3	--
81-06-01	1750	479	161	3.5	7	1.7	12	25	5.0	--
81-07-01	1515	479	167	6.2	8	3.0	14	29	1.3	--
81-08-17	1400	479	163	6.5	.9	2.4	11	30	.8	--
81-09-21	1300	479	173	12.0	1.7	4.5	13	46	4	--
81-10-19	1315	479	0237	19.0	2.3	5.5	16	56	L 1	--
81-11-16	1400	479	218	11.0	1.4	5.9	14	48	2	--
81-12-15	1515	479	255	12.0	1.5	7.3	17	54	2.1	--

STATION - 00AL05BN0001
BOW RIVER NEAR MOUTH, ALBERTA

LAT. 50D 2M 47S LONG. 111D 36M 26S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-21	1520	479	160	.160 03L	0.000	1.20 10L	--	1.60	.05	1.85
80-02-18	1520	479	150	.120 03L	.030	1.30 10L	--	2.20	.10	2.30
80-03-17	1610	479	230	.200 03L	030	1.40 10L	--	1.90	.11	2.01
80-04-14	1745	479	400	095	305	.85	1.40	1.30	1.00	2.30
80-05-12	1900	479	091	035	056	28	.33	.29	.26	.55
80-06-09	1540	479	180	034	.146	.35	.49	.51	.42	.93
80-07-14	1445	479	020	013	.007	L.01	.25	.27	.07	.34
80-08-05	1440	479	025	008	017	L.01	.25	24	10	.34
80-09-15	1415	479	021	008	013	L.01	.32	.30	14	44
80-10-20	1520	479	150	056	094	88	1.20	1.20	.37	1.57
80-11-25	1530	479	130	120	010	96	1.20	1.20	09	1.29
80-12-08	1545	479	180	170	010	1.30	1.90	1.90	.05	1.95
81-01-19	1530	479	170	.150	020	92	1.20	1.20	.14	1.34
81-02-16	1530	479	190	150	.040	2.00	3.10	2.30	.10	2.40
81-03-09	1515	479	170	120	050	1.10	1.30	1.30	17	1.47
81-04-07	1245	479	190	110	080	70	2.10	--	30	--
81-05-11	1420	479	088	046	042	46	59	.54	22	.76
81-06-01	1750	479	290	021	269	26	.38	.52	53	1.05
81-07-01	1515	479	037	005	032	05	16	16	19	35
81-08-17	1400	479	044	015	029	09	.22	23	14	.37
81-09-21	1300	479	024	012	012	L.01	17	18	07	.25
81-10-19	1315	479	038 06R	008 03V	030	.02 10V	28 51V	.26 51R	25 02R	.51
81-11-16	1400	479	230	110	120	1.40	1.30	1.30	19	1.49
81-12-15	1515	479	120	110	010	1.20	1.70	1.70	L.01	Q1.71

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-21	1520	479	6	--	31.0	2.0	.22	2.2	005	.04 05P
80-02-18	1520	479	2	--	23.0	1.0	56	1.6	--	--
80-03-17	1610	479	4	--	26.0	2.0	69	2.7	--	--
80-04-14	1745	479	7	--	--	3.0 04D	--	--	--	--
80-05-12	1900	479	L 1	--	--	3.0 04D	--	--	--	--
80-06-09	1540	479	1	--	--	4.0 04D	3.70	7.7	--	--
80-07-14	1445	479	L 1	--	--	3.0 04D	27	3.3	--	--
80-08-05	1440	479	L 1	--	--	3.0 04D	78	3.8	--	--
80-09-15	1415	479	L 1	--	--	4.0 04D	47	4.5	--	--
80-10-20	1520	479	L 1	--	--	2.0 04D	3.00	5.0	--	--
80-11-25	1530	479	2	--	--	2.0 04D	.35	2.4	--	--
80-12-08	1545	479	6	--	--	2.0 04D	26	2.3	--	--
81-01-19	1530	479	6	--	--	1.0 04D	46	1.5	--	--
81-02-16	1530	479	4	--	--	2.0 04D	71	2.7	--	--
81-03-09	1515	479	1	--	--	2.0 04D	1.50	3.5	--	--
81-04-07	1245	479	2	--	--	2.0	2.00	4.0	--	--
81-05-11	1420	479	L 1	--	--	2.7	1.20	3.9	--	--
81-06-01	1750	479	L 1	--	--	2.5	7.80	10.3	--	--
81-07-01	1515	479	L 1	--	--	3.2	1.40	4.6	--	--
81-08-17	1400	479	L 1	--	--	2.1	78	2.9	--	--
81-09-21	1300	479	L 1	--	--	2.9	41	3.3	--	--
81-10-19	1315	479	L 1 06N	--	--	3.1 04R	1.40 02R	4.5	--	--
81-11-16	1400	479	L 1	--	--	1.8	1.50	3.3	--	--
81-12-15	1515	479	L 1	--	--	2.0	13	2.1	--	--

STATION - 00AL05BN0001 LAT. 50D 2M 47S LONG. 111D 38M 28S
BOW RIVER NEAR MOUTH, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-21	1520	479	.07	L.0005 04L	L.0005 02L	.01	--	.12	--	L.02
80-02-18	1520	479	--	--	--	--	--	--	--	L.02
80-03-17	1610	479	--	--	--	--	--	--	--	L.02
80-04-14	1745	479	.13	.0006	L.0005	--	.01	--	.05	.03
80-05-12	1900	479	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-09	1640	479	.07	L.0005	L.0005	--	L.01	--	L.04	.02
80-07-14	1445	479	L.02	.0006	L.0005	--	L.01	--	L.04	.05
80-08-05	1440	479	.03	.0008	L.0005	--	L.01	--	.04	L.02
80-09-15	1415	479	.03	.0008	L.0005	--	L.01	--	L.04	L.02
80-10-20	1520	479	.07	.0006	L.0005	--	L.01	--	L.04	L.02
80-11-25	1530	479	.11	.0005	L.0005	--	L.01	--	L.04	L.02
80-12-08	1545	479	.13	.0006	L.0005	--	.01	--	.04	L.02
81-01-19	1530	479	.14	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-16	1530	479	.11	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-09	1515	479	.07	L.0005	L.0005	--	L.01	--	L.04	L.02
81-04-07	1245	479	.08	.0005	L.0005	--	L.01	--	L.04	L.02
81-05-11	1420	479	.04	.0007	L.0005	--	L.01	--	L.04	L.02
81-06-01	1750	479	.06	.0007	.0005	--	L.01	--	L.04	L.02
81-07-01	1515	479	.02	L.0005	L.0005	--	L.01	--	L.04	.02
81-08-17	1400	479	.03	.0006	L.0005	--	L.01	--	L.04	L.02
81-09-21	1300	479	.06 05D	.0005	L.0005	--	L.01	--	.04	L.02
81-10-19	1315	479	.03 05V	L.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11H
81-11-16	1400	479	.12 05D	.0005	L.0005	--	L.01	--	L.04	L.02
81-12-15	1515	479	.24 05D	.0005	L.0005	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-21	1520	479	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-12	1900	479	--	.002	--	--	.004	--	.009	L.004
80-08-05	1440	479	--	--	--	--	--	--	--	L.004
80-10-20	1520	479	--	L.001	--	--	L.002	--	.003	L.004
81-01-19	1530	479	--	.004	--	--	.009	--	.012	L.004
81-05-11	1420	479	--	L.001	--	--	L.002	--	--	L.004
81-08-17	1400	479	--	.001	--	--	L.002	--	L.002	L.004
81-10-19	1315	479	--	.002 20W	--	--	L.002 20W	--	L.002 20W	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-21	1520	479	.002	--	.003	--	.25	L.10	L.001	--
80-05-12	1900	479	--	.002	--	.011	--	--	--	.002
80-10-20	1520	479	--	L.001	--	L.001	--	--	--	L.001
81-01-19	1530	479	--	.002	--	.004	--	--	--	.001
81-05-11	1420	479	--	.003	--	--	--	--	--	L.001
81-08-17	1400	479	--	.001	--	.008	--	--	--	L.001
81-10-19	1315	479	--	.002 20W	--	.002 20W	--	--	--	L.001 20W

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05BN0001
BOW RIVER NEAR MOUTH, ALBERTA

LAT. 50D 2M 47S LONG. 111D 39M 28S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06504P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-21	1520	479	.05	--	L.004	--	--	.001	--	--
80-02-18	1520	479	--	--	--	--	--	L.001	--	--
80-03-17	1810	479	--	--	--	--	--	L.001	--	--
80-04-14	1745	479	--	--	--	--	--	.002	--	--
80-05-12	1900	479	--	.05	--	.004	--	L.001	--	--
80-06-09	1540	479	--	--	--	--	--	.007	--	--
80-07-14	1445	479	--	--	--	--	--	.001	--	--
80-08-05	1440	479	--	--	--	--	--	.002	--	--
80-09-15	1415	479	--	--	--	--	--	.001	--	--
80-10-20	1520	479	--	L.05	--	L.004	--	L.001	--	--
80-11-25	1530	479	--	--	--	--	--	.001	--	--
80-12-08	1545	479	--	--	--	--	--	L.001	--	--
81-01-19	1530	479	--	L.05	--	.005	--	L.001	--	--
81-02-16	1530	479	--	--	--	--	--	L.001	--	--
81-03-09	1515	479	--	--	--	--	--	L.001	--	--
81-04-07	1245	479	--	--	--	--	--	L.001	--	--
81-05-11	1420	479	--	.06	--	L.004	--	L.001	--	--
81-06-01	1750	479	--	--	--	--	--	L.001	--	--
81-07-01	1515	479	--	--	--	--	--	L.001	--	--
81-08-17	1400	479	--	.06	--	L.004	--	L.001	--	--
81-09-21	1300	479	--	--	--	--	--	.002	--	--
81-10-19	1315	479	--	.07 20W	--	L.004 20W	--	.001 35W	--	--
81-11-16	1400	479	--	--	--	--	--	.001	--	--
81-12-15	1515	479	--	--	--	--	--	L.001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P.P-TDE UG/L	18020L P.P-DDE UG/L
80-01-21	1520	479	--	--	L.001	L.001	.001	.001	L.002	L.001
80-05-12	1900	479	--	--	L.001	L.001	.001	.001	L.002	L.001
80-08-05	1440	479	--	--	L.001	L.001	.007	L.001	L.002	L.001
80-10-20	1520	479	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-01-19	1530	479	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-05-11	1420	479	--	--	L.001	L.001	.002	.001	L.002	L.001
81-08-17	1400	479	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-10-19	1315	479	--	--	L.001 30R	L.001 11R	.010 75R	L.001 70R	L.002 10R	L.001 20R

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-21	1520	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-12	1900	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-05	1440	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-20	1520	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-19	1530	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-11	1420	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-17	1400	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-19	1315	479	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R

STATION - 00AL05BN0001 LAT. 50D 2M 47S LONG. 111D 35M 28S
BOW RIVER NEAR MOUTH, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-21	1520	479	L.002	L.001	L.003	L.002	L.2	.040	L.009	L.004
80-05-12	1900	479	L.002	L.001	L.003	L.002	L.2	.200	L.009	L.004
80-08-05	1440	479	L.002	L.001	L.003	L.002	L.2	.100	L.009	L.004
80-10-20	1520	479	L.002	L.001	L.003	L.002	L.2	.200	L.009	L.004
81-01-19	1530	479	L.002	L.001	L.003	L.002	L.2	.030	L.009	L.004
81-05-11	1420	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-17	1400	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-19	1315	479	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	.040 00W	L.009 50W	L.004 55W

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-21	1520	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-12	1900	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-05	1440	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-20	1520	479	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-01-19	1530	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-05-11	1420	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-08-17	1400	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-10-19	1315	479	L.002 10W	L.004 40W	--	L.002 59R	L.002 60R	--	L.005 62R	L.002 64P

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-21	1520	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-05-12	1900	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-08-05	1440	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-10-20	1520	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-01-19	1530	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-05-11	1420	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-08-17	1400	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-10-19	1315	479	L.5 90W	L.2 95W	L.2 05W	L.02 15W	L.20 30W	L.02 40W	L.02 45W	L.05 50W

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-21	1520	479	L.02	L.02	L.02	L.02	L.02
80-05-12	1900	479	L.02	L.02	L.02	L.02	L.02
80-08-05	1440	479	L.02	L.02	L.02	L.02	L.02
80-10-20	1520	479	L.02	L.02	L.02	L.02	L.02
81-01-19	1530	479	L.02	L.02	L.02	L.02	L.02
81-05-11	1420	479	L.02	L.02	L.02	L.02	L.02
81-08-17	1400	479	L.02	L.02	L.02	L.02	L.02
81-10-19	1315	479	L.02 60W	L.02 70W	L.02 00W	L.02 10W	L.02 20W

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CC0004
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

LAT. 52D 16M 05 LONG. 113D 51M 47S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-14	1335	479	0.0	17.3	460.	--	7.4	7.5	2.7	5.0
80-02-11	1300	479	.5	20.8	--	537.	8.2	7.6	.7	4.4
80-03-10	1030	479	1.0	18.1	460.	551.	8.1	7.7	1.2	1.1
80-04-07	1215	479	.5	14.7	400.	461.	8.5	8.0	--	2.1
80-05-20	1130	479	15.0	20.0	340.	388.	8.4	8.4	8.4	4.2
80-06-02	1020	479	11.0	19.4	320.	339.	--	8.2	--	22.0
80-07-07	1100	479	16.0	23.3	--	345.	8.5	8.3	10.0	6.8
80-08-19	1050	479	15.0	19.0	--	383.	8.6	8.3	5.0	1.7
80-09-08	1100	479	11.0	21.5	324.	398.	8.4	8.3	3.0	2.0
80-10-06	1100	479	10.0	21.7	369.	426.	8.5	8.3	5.0	4.0
80-11-03	1200	479	3.0	20.1	385.	459.	8.6	8.4	4.0	3.0
80-12-01	1220	479	.5	17.6	440.	525.	8.3	8.0	8.0	5.6
81-01-14	1600	479	.5	20.7	441.	543.	7.9	7.8	3.0	2.7
81-02-09	1215	479	0.0	14.5	443.	548.	8.1	7.7	2.0	2.8
81-03-02	1210	479	.5	22.2	436.	528.	8.0	7.9	2.0	2.1
81-04-14	1000	479	2.0	22.4	--	447.	8.6	8.2	7.0	4.3
81-05-21	1125	479	14.0	20.3 61R	244.	286. 41R	7.9	8.1 01R	G200.0	120.0 73R
81-06-22	1030	479	14.0	15.1	--	369.	8.3	8.4	22.0	12.0
81-07-13	0915	479	16.5	18.1	372.	367.	7.5	--	10.0	18.0
81-08-24	1030	479	16.5	24.8	351.	382.	8.4	8.4	14.0	5.5
81-09-08	1015	479	14.5	16.8	367.	405.	8.4	8.4	12.0	17.5
81-10-05	1000	479	5.0	23.4	415.	437.	8.2	8.3	5.7	1.6
81-11-02	1015	479	--	16.8	--	460.	8.6	8.3	3.0	2.8
81-12-07	1015	479	0.0	22.1	555.	518.	8.2	8.1	--	2.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-14	1335	479	5.	--	10.	--	--	--	--	L2.
80-02-11	1300	479	5.	--	L1.	--	--	5.	4.	2.
80-03-10	1030	479	10.	--	2. 01R	--	--	59. 02U	3. 12U	3. 03U
80-04-07	1215	479	10.	--	4.	--	L.001	10.	L2.	13.
80-05-20	1130	479	5.	--	4.	--	.001	8.	3.	50.
80-06-02	1020	479	50.	--	43.	--	L.001	--	40.	20.
80-07-07	1100	479	50.	--	11.	--	.002	--	30.	42.
80-08-19	1050	479	10.	--	7.	--	.001	--	9.	9.
80-09-08	1100	479	30.	--	3.	--	L.001	8.	2.	7.
80-10-06	1100	479	30.	--	5.	--	.002	--	4.	L2.
80-11-03	1200	479	20.	--	5.	--	.002	2.	L2.	L2.
80-12-01	1220	479	30.	--	17.	--	L.001	7.	L2.	L2.
81-01-14	1600	479	10.	--	4.	--	L.001	7.	L2.	L2.
81-02-09	1215	479	10.	--	3.	--	L.001	--	--	--
81-03-02	1210	479	20.	--	2.	--	.001	680.	3.	77.
81-04-14	1000	479	--	20.	5.	--	.005	2.	2.	1.
81-05-21	1125	479	--	50. 21R	252. 01R	--	.006 17T	130. 02U	55. 12U	45. 03U
81-06-22	1030	479	--	20.	18.	--	.001	--	12.	5.
81-07-13	0915	479	--	10.	20.	--	.004	130.	48.	36.
81-08-24	1030	479	--	10.	11.	--	.002	--	10.	16.
81-09-08	1015	479	--	10.	9.	--	.002	2.	2.	L2.
81-10-05	1000	479	--	10.	2.	--	.001	--	9.	3.
81-11-02	1015	479	--	20.	2.	--	.004	L2.	L2.	--
81-12-07	1015	479	--	10.	4.	--	.002	1.	L1.	2.

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CC0004 LAT. 52D 18M 0S LONG. 113D 51M 47S
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101H OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-14	1335	479	8.2	0.	0.0	268.	220.0 06L	62.10	22.4	247.3
80-02-11	1300	479	9.4	0.	0.0	244.	200.0 06L	56.50	22.3	232.9
80-03-10	1030	479	9.8	0.	0.0	249.	204.0 06L	50.40	22.3	217.7
80-04-07	1215	479	11.6	0.	0.0	207.	170.0	52.10	38.2	287.4
80-05-20	1130	479	9.5	Q1.	L1.0	Q163.	136.0	50.30	16.8	194.8
80-06-02	1020	479	8.8	0.	0.0	166.	136.0	42.80	12.5	158.3
80-07-07	1100	479	--	0.	0.0	172.	141.0	44.50	12.7	163.4
80-08-19	1050	479	9.2	0.	0.0	177.	145.0	50.50	16.2	192.8
80-09-08	1100	479	10.6	0.	0.0	195.	160.0	49.20	15.4	186.3
80-10-06	1100	479	9.6	0.	0.0	212.	174.0	52.20	16.0	196.2
80-11-03	1200	479	12.4	4.	3.0	224.	190.0	53.80	17.5	206.8
80-12-01	1220	479	--	0.	0.0	261.	214.0	66.80	21.2	254.1
81-01-14	1600	479	9.9	0.	0.0	271.	222.0	58.10	20.2	228.2
81-02-09	1215	479	9.4	0.	0.0	273.	224.0	50.70	22.1	217.6
81-03-02	1210	479	9.6	0.	0.0	260.	213.0	65.20	20.1	245.6
81-04-14	1000	479	13.4	0.	0.0	227.	186.0	56.00	18.5	216.0
81-05-21	1125	479	8.8	0.	0.0 51R	143.	117.0 01R	38.30 03R	10.7 02R	139.7
81-06-22	1030	479	9.2	0.	0.0	196.	161.0	44.80	15.4	175.3
81-07-13	0915	479	8.3	--	0.0	--	156.0	48.60	15.5	185.2
81-08-24	1030	479	9.0	2.	1.9	199.	167.0	48.70	15.7	186.2
81-09-08	1015	479	8.7	0.	.3	218.	179.0	47.30	15.9	183.6
81-10-05	1000	479	10.9	0.	0.0	230.	189.0	48.10	17.4	191.7
81-11-02	1015	479	11.5	0.	0.0	250.	205.0	50.80	19.4	206.7
81-12-07	1015	479	12.7	0.	0.0	288.	236.0	50.10	22.0	215.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-14	1335	479	288.	8.7	1.3	1.6	.16	52.	7.5	--
80-02-11	1300	479	268.	7.1	1.0	1.2	.14	53.	6.4	--
80-03-10	1030	479	260.	7.8	1.1	1.1	.16	48.	6.9	--
80-04-07	1215	479	252.	8.1	1.7	1.5	.11	43.	5.8	--
80-05-20	1130	479	201.	4.5	.7	.8	.15	42.	4.2	--
80-06-02	1020	479	180.	5.6	1.2	1.0	.13	30.	5.7	--
80-07-07	1100	479	180.	6.4	1.5	1.2	.06	22.	6.8	--
80-08-19	1050	479	201	5.6	1.0	.8	.09	36	3.8	--
80-09-08	1100	479	205.	6.2	1.1	1.0	.09	32.	3.9	--
80-10-06	1100	479	223.	8.2	1.1	1.7	.18	35.	4.0	--
80-11-03	1200	479	238.	8.1	1.2	1.7	.13	37.	4.8	--
80-12-01	1220	479	275.	8.8	1.3	1.7	.11	40.	6.5	--
81-01-14	1600	479	277.	9.1	1.6	1.6	.16	46.	7.3	--
81-02-09	1215	479	272.	9.5	1.3	1.4	.19	46.	6.9	--
81-03-02	1210	479	278.	9.1	3.4	2.9	.18	42.	7.3	--
81-04-14	1000	479	236.	10.0	2.4	2.0	.20	31.	4.1	--
81-05-21	1125	479	154.	5.1 03R	1.4 03R	1.2 06R	.15 05R	20. 06R	7.2 05R	--
81-06-22	1030	479	194.	6.0	1.0	.9	.12	24.	5.6	--
81-07-13	0915	479	199.	4.7	.8	.8	.14	30.	4.8	--
81-08-24	1030	479	203.	4.6	.9	1.0	.14	26.	5.6	--
81-09-08	1015	479	213.	5.7	1.0	1.0	.13	29.	5.4	--
81-10-05	1000	479	225.	7.0	1.1	1.4	.16	32.	4.8	--
81-11-02	1015	479	242.	8.8	1.3	1.5	.17	32.	4.6	--
81-12-07	1015	479	276.	8.5	1.3	1.6	.12	44	6.6	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CC0004
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA
LAT. 52D 18M 0S LONG. 113D 51M 47S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-14	1335	479	.011	.005 03L	.006	.15 10L	--	.32	.14	.46
80-02-11	1300	479	.016	L.003 03L	Q.013	.14 10L	--	.19	.04	.23
80-03-10	1030	479	.003 06R	.003 03R	Q.000	.16 10R	--	.19 51R	.03 02R	.22
80-04-07	1215	479	.130	.007	.123	.13	.22	.23	.13	.36
80-05-20	1130	479	.009	L.003	Q.006	L.01	.07	.06	.07	.13
80-06-02	1020	479	.050	.013	.037	.04	.23	.23	.14	.37
80-07-07	1100	479	--	--	--	L.01	.39	.39	.09	.48
80-08-19	1050	479	--	.005	--	.01	.12	.15	.19	.34
80-09-08	1100	479	.006	.004	.002	L.01	.19	.21	.07	.28
80-10-06	1100	479	.021	.008	.013	L.01	.18	.17	.01	.18
80-11-03	1200	479	L.003	L.003	Q0.000	L.01	.14	.12	.05	.17
80-12-01	1220	479	.017	.004	.013	.11	.23	.22	.12	.34
81-01-14	1800	479	.010	.003	.007	.17	.31	.25	.05	.30
81-02-09	1215	479	.011	L.003	Q.008	.16	.25	.24	L.01	Q.25
81-03-02	1210	479	.059	.019	.040	.19	.61	.57	.08	.65
81-04-14	1000	479	.022	.022	Q.000	.01	.25	.23	.14	.37
81-05-21	1125	479	.210 06R	.005 03V	.205	.04 10V	.35 51V	.34 51R	.52 02R	.86
81-06-22	1030	479	.018	L.003	Q.015	L.01	.15	.14	.10	.24
81-07-13	0915	479	.018	L.003	Q.015	L.01	.09	.09	.06	.15
81-08-24	1030	479	.015	L.003	Q.012	.01	.12	.12	.06	.18
81-09-08	1015	479	.009	L.003	Q.006	.01	.13	.13	.03	.16
81-10-05	1000	479	.008	.005	.003	L.01	.11	.13	L.01	Q.14
81-11-02	1015	479	.024	.012	.012	.01	.11	.11	L.01	Q.12
81-12-07	1015	479	.005	L.003	Q.002	.12	.21	.21	L.01	Q.22

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-14	1335	479	--	--	43.0	3.0	1.48	4.5	.006	.10 05P
80-02-11	1300	479	L.1	--	40.0	1.0	.12	1.1	--	--
80-03-10	1030	479	L.1 06W	--	38.0 52R	1.0 04R	.11 02R	1.1	--	--
80-04-07	1215	479	L.1	--	29.0 52D	2.0 04D	.21	2.2	--	--
80-05-20	1130	479	L.1	--	--	2.0 04D	--	--	--	--
80-06-02	1020	479	L.1	--	--	7.0 04D	--	--	--	--
80-07-07	1100	479	1	--	--	8.0 04D	1.10	9.1	--	--
80-08-19	1050	479	L.1	--	--	3.0 04D	.64	3.6	--	--
80-09-08	1100	479	L.1	--	--	4.0 04D	.33	4.3	--	--
80-10-06	1100	479	L.1	--	--	4.0 04D	.35	4.4	--	--
80-11-03	1200	479	L.1	--	--	3.0 04D	.38	3.4	--	--
80-12-01	1220	479	L.1	--	--	3.0 04D	.51	3.5	--	--
81-01-14	1800	479	L.1	--	--	3.0 04D	.30	3.3	--	--
81-02-09	1215	479	L.1	--	--	2.0 04D	.14	2.1	--	--
81-03-02	1210	479	L.1	--	--	5.0 04D	.34	5.3	--	--
81-04-14	1000	479	L.1	--	--	--	.55	--	--	--
81-05-21	1125	479	L.1 06W	--	--	10.0 04R	9.00 02R	19.0	--	--
81-06-22	1030	479	L.1	--	--	1.1	1.10	2.2	--	--
81-07-13	0915	479	L.1	--	--	2.8	.76	3.6	--	--
81-08-24	1030	479	L.1	--	--	3.0	.54	3.5	--	--
81-09-08	1015	479	L.1	--	--	2.9	.35	3.3	--	--
81-10-05	1000	479	L.1	--	--	2.7	.21	2.9	--	--
81-11-02	1015	479	L.1	--	--	3.2	--	--	--	--
81-12-07	1015	479	L.1	--	--	2.6	.14	2.7	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CC0004 LAT. 52D 18M 05 LONG. 113D 51M 47S
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-14	1335	479	.04	L.0005 04L	L.0005 02L	.04	--	.58	--	L.02
80-02-11	1300	479	--	--	--	--	--	--	--	L.02
80-03-10	1030	479	--	--	--	--	--	--	--	L.02 11W
80-04-07	1215	479	.06	L.0005	L.0005	--	.02	--	.05	L.02
80-05-20	1130	479	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-02	1020	479	.07	L.0005	L.0005	--	L.01	--	.08	.05
80-07-07	1100	479	.08	.0007	L.0005	--	L.01	--	.10	L.02
80-08-19	1050	479	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-08	1100	479	.07	L.0005	L.0005	--	L.01	--	.05	L.02
80-10-06	1100	479	.06	L.0005	L.0005	--	L.01	--	.04	L.02
80-11-03	1200	479	.04	L.0005	L.0005	--	L.01	--	.05	L.02
80-12-01	1220	479	.07	L.0005	L.0005	--	.01	--	.04	L.02
81-01-14	1800	479	.07	L.0005 04L	L.0005 02L	--	L.01	--	.04	L.02
81-02-09	1215	479	.07	L.0005	L.0005	--	L.01	--	L.04	.02
81-03-02	1210	479	.07	L.0005	L.0005	--	.02	--	.06	L.02
81-04-14	1000	479	.07	L.0005	L.0005	--	.01	--	.12	L.02
81-05-21	1125	479	.11 05F	L.0005 04V	L.0005 02V	--	L.01 04T	--	.08 04T	L.02 11W
81-06-22	1030	479	.04	L.0005	.0005	--	.02	--	L.04	L.02
81-07-13	0815	479	.05	L.0005	L.0005	--	.02	--	L.04	L.02
81-08-24	1030	479	.05 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-08	1015	479	.10 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-05	1000	479	.05 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-02	1015	479	.05 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-07	1015	479	.06 05D	L.0005	L.0005	--	.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-14	1335	479	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-20	1130	479	--	.002	--	--	.004	--	.009	L.004
80-08-19	1050	479	--	L.001	--	--	L.002	--	.002	L.004
80-10-06	1100	479	--	.001	--	--	L.002	--	.006	L.004
81-01-14	1800	479	--	.020	--	--	.013	--	.004	.005
81-05-21	1125	479	--	L.001 20W	--	--	.002 20W	--	--	L.004 01W
81-08-24	1030	479	--	L.001	--	--	L.002	--	.005	L.004
81-10-05	1000	479	--	L.001	--	--	L.002	--	L.002	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLI CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-14	1335	479	.002	--	.007	--	.45	L.10	L.001	--
80-05-20	1130	479	--	.001	--	.007	--	--	--	L.001
80-08-19	1050	479	--	.001	--	.002	--	--	--	L.001
80-10-06	1100	479	--	.001	--	.007	--	--	--	L.001
81-01-14	1800	479	--	.002	--	.004	--	--	--	L.001
81-05-21	1125	479	--	.004 20W	--	.010	--	--	--	L.001 20W
81-08-24	1030	479	--	.002	--	.006	--	--	--	L.001
81-10-05	1000	479	--	.001	--	.002	--	--	--	L.001

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CC0004 LAT. 52D 18M 05 LONG. 113D 51M 47S
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-14	1335	479	.15	--	L .004	--	--	.002	--	--
80-02-11	1300	479	--	--	--	--	--	L .001	--	--
80-03-10	1030	479	--	--	--	--	--	L .001 35W	--	--
80-04-07	1215	479	--	--	--	--	--	L .001	--	--
80-05-20	1130	479	--	.07	--	L .004	--	.002	--	--
80-06-02	1020	479	--	--	--	--	--	.002	--	--
80-07-07	1100	479	--	--	--	--	--	.006	--	--
80-08-19	1050	479	--	.07	--	L .004	--	.001	--	--
80-09-08	1100	479	--	--	--	--	--	L .001	--	--
80-10-06	1100	479	--	.06	--	L .004	--	.001	--	--
80-11-03	1200	479	--	--	--	--	--	.002	--	--
80-12-01	1230	479	--	--	--	--	--	.002	--	--
81-01-14	1600	479	--	.12	--	L .004	--	L .001	--	--
81-02-09	1215	479	--	--	--	--	--	L .001	--	--
81-03-02	1210	479	--	--	--	--	--	.006	--	--
81-04-14	1000	479	--	--	--	--	--	L .001	--	--
81-05-21	1125	479	--	.15 20W	--	L .004 20W	--	.001 35W	--	--
81-06-22	1030	479	--	--	--	--	--	.002	--	--
81-07-13	0815	479	--	--	--	--	--	L .001	--	--
81-08-24	1030	479	--	.09	--	L .004	--	L .001	--	--
81-09-08	1015	479	--	--	--	--	--	L .001	--	--
81-10-05	1000	479	--	.05	--	L .004	--	L .001	--	--
81-11-02	1015	479	--	--	--	--	--	.001	--	--
81-12-07	1015	479	--	--	--	--	--	L .001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT N-ALKYL SULPHNTS LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P.P-TDE UG/L	18020L P.P-DDE UG/L
80-01-14	1335	479	--	--	L .001	L .001	L .001	L .001	L .002	L .001
80-05-20	1130	479	--	--	L .001	L .001	.001	L .001	L .002	L .001
80-08-19	1050	479	--	--	L .001	L .001	.004	L .001	L .002	L .001
80-10-06	1100	479	--	--	L .001	L .001	.001	L .001	L .002	L .001
81-01-14	1600	479	--	--	L .001	L .001	L .001	L .001	L .002	L .001
81-05-21	1125	479	--	--	L .001 30R	L .001 11R	.001 75R	L .001 70R	L .002 10R	L .001 20R
81-08-24	1030	479	--	--	L .001	L .001	.003	L .001	L .002	L .001
81-10-05	1000	479	--	--	L .001	L .001	.002	L .001	L .002	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-14	1335	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
80-05-20	1130	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
80-08-19	1050	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
80-10-06	1100	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
81-01-14	1600	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
81-05-21	1125	479	L .001 05R	L .004 00R	L .01 30R	L .002 40R	L .001 50R	L .003 55R	L .001 40R	L .002 45R
81-08-24	1030	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
81-10-05	1000	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CC0004 LAT 52D 16M 05 LONG. 113D 51M 47S
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-14	1335	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
80-06-20	1130	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
80-08-19	1050	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
80-10-06	1100	479	L .002	L .001	L .003	L .002	L .2	.005	L .009	L .004
81-01-14	1800	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
81-06-21	1125	479	L .002 50R	L .001 25R	L .003 60R	L .002 65R	L .2 20W	.009 00W	L .009 50W	L .004 55W
81-08-24	1030	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004
81-10-05	1000	479	L .002	L .001	L .003	L .002	L .2	L .004	L .009	L .004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-14	1335	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
80-06-20	1130	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
80-08-19	1050	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
80-10-06	1100	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .020
81-01-14	1800	479	L .002	L .004	L .2	--	L .002	L .002	L .005	L .002
81-06-21	1125	479	L .002 10W	L .004 40W	--	L .002 59R	L .002 60R	--	L .005 62R	L .002 64R
81-08-24	1030	479	L .002	L .004	--	L .002	L .002	--	L .005	L .002
81-10-05	1000	479	L .002	L .004	-	L .002	L .002	--	L .005	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-14	1335	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
80-06-20	1130	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
80-08-19	1050	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
80-10-06	1100	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-01-14	1800	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-06-21	1125	479	L .5 90W	L .2 95W	L .2 05W	L .02 15W	L .20 30W	L .02 40W	L .02 45W	L .05 50W
81-08-24	1030	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05
81-10-05	1000	479	L .5	L .2	L .2	L .02	L .20	L .02	L .02	L .05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-14	1335	479	L .02	L .02	L .02	L .02	L .02
80-06-20	1130	479	L .02	L .02	L .02	L .02	L .02
80-08-19	1050	479	L .02	L .02	L .02	L .02	L .02
80-10-06	1100	479	L .02	L .02	L .02	L .02	L .02
81-01-14	1800	479	L .02	L .02	L .02	L .02	L .02
81-06-21	1125	479	L .02 60W	L .02 70W	L .02 00W	L .02 10W	L .02 20W
81-08-24	1030	479	L .02	L .02	L .02	L .02	L .02
81-10-05	1000	479	L .02	L .02	L .02	L .02	L .02

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CE0001 RED DEER RIVER AT DRUMHELLER, ALBERTA — LAT. 51D 28M 8S LONG. 112D 42M 28S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-16	1245	479	1.0	21.2	506.	582.	7.4	7.4	1.0	1.5
80-02-13	1230	479	.5	16.9	480.	606	7.5	7.4	.7	5.8
80-03-12	1220	479	1.0	20.1	--	922.	7.4	7.4	1.1	2.5
80-04-14	1250	479	4.0	20.6	290.	337.	7.9	7.9	600.0	550.0
80-05-20	1115	479	17.0	19.8	336.	370.	8.5	8.6	1.1	.9
80-06-09	1145	479	15.0	22.6	273.	304.	8.2	8.2	--	95.0
80-07-28	1145	479	21.0	18.9	340.	378.	8.5	8.4	230.0	210.0
80-08-29	1030	479	13.0	19.5	320.	356.	8.7	8.5	9.0	7.5
80-09-08	1050	479	11.0	21.2	313.	355.	8.5	8.6	2.6	4.2
80-10-20	1145	479	6.5	19.1	389.	435.	8.8	8.5	2.0	4.1
80-11-17	1145	479	.5	18.6	483.	555.	8.3	8.6	.3	3.0
80-12-08	1315	479	0.0	22.1	600.	661.	8.6	--	.5	1.5
81-01-19	1140	479	.5	18.6	549.	602.	--	7.5	.6	1.7
81-02-23	1220	479	.5	20.3	397.	454.	8.0	7.7	65.0	78.0
81-03-16	1200	479	1.5	21.8	504.	530.	8.1	7.9	90.0	110.0
81-04-06	0845	479	3.0	21.5	370.	386.	8.0	7.9	45.0	50.0
81-05-04	1000	479	10.0	20.2	427.	458.	8.5	8.6	3.0	3.5
81-06-22	0855	479	14.5	14.8	354.	356.	8.4	8.6	10.0	14.0
81-07-20	1015	479	19.5	16.7	337.	337.	8.1	8.2	440.0	160.0
81-08-24	1000	479	19.0	24.1	382.	384.	8.5	8.5	8.2	8.2
81-09-21	0845	479	11.5	12.4	366.	366.	8.4	8.4	500.0	180.0
81-10-26	1000	479	3.0	18.1	427.	441.	8.6	8.3	38.0	38.0
81-11-16	1000	479	1.0	20.4	449.	470.	8.4	8.2	2.2	1.9
81-12-10	0850	479	0.0	21.5	619.	589.	8.3	8.1	1.0	1.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-16	1245	479	5	--	L1.	--	--	L2.	L2.	L2.
80-02-13	1230	479	5	--	7.	--	--	L2.	L2.	L2.
80-03-12	1220	479	10	--	3.	--	--	29.	L2.	17.
80-04-14	1250	479	90	--	3750	--	.053	--	300.	5500.
80-05-20	1115	479	10	--	L1.	--	L.001	27	13.	20.
80-06-09	1145	479	150	--	228.	--	.004	500.	110.	106.
80-07-28	1145	479	400	--	459	--	.018	--	510.	780.
80-08-29	1030	479	30	--	14	--	.001	20	18.	20.
80-09-08	1050	479	40	--	13	--	--	14.	14.	12
80-10-20	1145	479	30	--	7	--	.002	2.	2.	15.
80-11-17	1145	479	30	--	3.	--	.001	L2.	L2.	18.
80-12-08	1315	479	30	--	1.	--	.002	10.	2.	3.
81-01-19	1140	479	5.	--	2.	--	L.001	10	4.	3.
81-02-23	1220	479	200	--	52.	--	.020	800.	180.	4800.
81-03-16	1200	479	240	--	188	--	.010	400.	100.	4700.
81-04-06	0845	479	--	50	223.	--	.002	170.	L10.	50.
81-05-04	1000	479	--	10.	7	--	.004	2.	L2.	8.
81-06-22	0855	479	--	30	23.	--	.008	30.	6.	2.
81-07-20	1015	479	--	30.	395.	--	.020	1000.	350.	300.
81-08-24	1000	479	--	20	15	--	.004	22.	18.	6.
81-09-21	0845	479	--	30	339.	--	.005	500.	250.	210.
81-10-26	1000	479	--	30	68.	--	.005	30.	20.	180.
81-11-16	1000	479	--	10	2	--	.001	2.	L2.	L2.
81-12-10	0850	479	--	20	1.	--	.001	1.	1.	L1.

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CE0001 LAT. 51D 28M 8S LONG. 112D 43M 28S
RED DEER RIVER AT DRUMHELLER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-16	1245	479	.8	0.	0.0	334.	274.0 06L	79.50	26.9	309.3
80-02-13	1230	479	2.7	0	0.0	299.	245.0 06L	74.20	25.3	289.4
80-03-12	1220	479	2.4	0.	0.0	288.	236.0 06L	68.50	24.8	273.2
80-04-14	1250	479	--	0.	0.0	146.	120.0	16.40	4.7	60.3
80-05-20	1115	479	8.9	3.	2.2	154.	131.0	39.20	16.8	167.1
80-06-09	1145	479	8.8	0.	0.0	144.	118.0	35.00	10.5	130.6
80-07-28	1145	479	7.7	2.	1.8	169.	142.0	41.00	13.5	158.0
80-08-29	1030	479	9.8	0.	0.0	168.	138.0	39.40	16.2	165.1
80-09-08	1050	479	8.8	9.	7.5	159.	145.0	41.00	14.0	160.0
80-10-20	1145	479	10.8	4.	3.5	201.	172.0	50.00	16.2	191.6
80-11-17	1145	479	13.3	2.	1.5	272.	226.0	61.00	21.1	239.2
80-12-08	1315	479	7.7	--	0.0	--	282.0	69.70	26.2	281.9
81-01-19	1140	479	1.8	0.	0.0	304.	249.0	67.10	23.6	264.7
81-02-23	1220	479	9.9	0.	0.0	167.	137.0	35.60	12.0	138.3
81-03-16	1200	479	12.2	0.	0.0	206.	169.0	41.90	14.8	165.6
81-04-06	0845	479	11.3	0.	0.0	180.	148.0	39.20	12.2	148.1
81-05-04	1000	479	9.8	6.	5.0	218.	189.0	51.00	19.0	205.6
81-06-22	0855	479	9.2	6.	5.0	176.	154.0	44.30	14.7	171.1
81-07-20	1015	479	7.7	0.	0.0	176.	144.0	41.50	12.5	155.1
81-08-24	1000	479	8.2	6.	4.6	194.	168.0	47.20	16.0	183.7
81-09-21	0845	479	9.9	0	.3	181.	149.0	38.70	16.1	162.9
81-10-26	1000	479	13.2	0.	0.0	224.	184.0	50.80	18.7	203.8
81-11-16	1000	479	12.8	0	0.0	241.	198.0	57.50	19.9	225.5
81-12-10	0950	479	13.0	0.	0.0	347.	285.0	59.00	26.7	257.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-16	1245	479	367.	19.0	2.3	3.9	.20	83	7.9	--
80-02-13	1230	479	336.	16.0	1.9	5.3	.18	80	6.1	--
80-03-12	1220	479	324.	16.0	1.8	4.7	.21	59.	7.2	--
80-04-14	1250	479	190	40.0	6.0	3.4	.14	36	11.0	--
80-05-20	1115	479	193	9.4	1.3	1.7	.16	46	.2	--
80-06-09	1145	479	159.	9.3	1.8	1.2	.10	23	7.4	--
80-07-28	1145	479	200.	15.0	1.7	1.5	.14	38	3.9	--
80-08-29	1030	479	183.	9.2	1.1	1.4	.09	32	.8	--
80-09-08	1050	479	184.	9.1	1.4	1.5	.08	28	1.5	--
80-10-20	1145	479	225.	11.0	1.1	2.2	.15	40	1.5	--
80-11-17	1145	479	295.	20.0	1.7	3.1	.19	50	2.1	--
80-12-08	1315	479	354.	22.0	2.2	4.0	.13	56.	4.9	--
81-01-18	1140	479	306.	18.0	2.6	3.8	.16	33	8.3	--
81-02-23	1220	479	240.	33.0	9.2	6.6	.15	54	7.8	--
81-03-16	1200	479	282.	33.0	5.5	4.7	.16	74	6.2	--
81-04-06	0845	479	204.	20.0	5.4	3.0	L.05	29	5.9	--
81-05-04	1000	479	251.	22.0	2.3	3.3	.17	40	.2	--
81-06-22	0855	479	191.	7.6	1.1	1.1	.12	25	4.7	--
81-07-20	1015	479	186.	11.0	1.9	1.4	.10	24.	7.0	--
81-08-24	1000	479	204.	6.5	1.1	1.3	.14	26.	5.1	--
81-09-21	0845	479	195.	14.0	1.5	2.2	.13	32	.6	--
81-10-26	1000	479	237.	14.0	1.4	2.5	.15	38	1.6	--
81-11-16	1000	479	256.	15.0	1.5	2.3	.14	40	1.4	--
81-12-10	0950	479	338.	22.0	2.2	4.6	.16	50	2.6	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CE0001
RED DEER RIVER AT DRUMHELLER, ALBERTA

LAT. 51D 28M 05 LONG. 112D 42M 29S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-16	1245	479	.043	.039 03L	.004	.21 10L	--	.82	.03	.85
80-02-13	1230	479	.065	.059 03L	.006	.19 10L	--	.74	.03	.77
80-03-12	1220	479	.099	.098 03L	.001	.80 10L	--	.84	.04	.88
80-04-14	1250	479	2.200	.056	2.144	4.10	5.00	5.00	4.40	9.40
80-05-20	1115	479	.010	.004	.006	L.01	.14	.11	L.01	0.12
80-06-09	1145	479	.240	.019	.221	.06	.44	.46	.52	.98
80-07-28	1145	479	.240	.014	.226	L.01	.28	.30	.64	.94
80-08-29	1030	479	.016	.004	.012	L.01	.19	.22	.11	.33
80-09-08	1050	479	.017	.008	.009	L.01	.32	.31	.16	.47
80-10-20	1145	479	.012	L.003	0.009	L.01	.17	.19	.05	.24
80-11-17	1145	479	.016	.010	.006	.02	.21	.23	.09	.32
80-12-08	1315	479	.023	.019	.004	.10	.35	.37	.04	.41
81-01-19	1140	479	.089	075	.014	.34	.82	.80	.11	.91
81-02-23	1220	479	.500	.360	.140	1.40	2.30	2.50	1.00	3.50
81-03-16	1200	479	.270	.120	.150	.85	1.20	1.20	.52	1.72
81-04-06	0845	479	350	.070	.280	--	.80	.75	.88	1.63
81-06-04	1000	479	029	012	.017	L.01	.25	.26	.11	.37
81-06-22	0855	479	.040	.003	.037	L.01	.17	.18	.19	.37
81-07-20	1015	479	310	016	.294	.15	.42	.43	.56	.99
81-08-24	1000	479	021	007	014	L.01	.16	.15	.07	.22
81-09-21	0845	479	140	L.003	0.137	.03	.17	.19	.68	.87
81-10-26	1000	479	027	.003	.024	.03	.16	--	.15	--
81-11-16	1000	479	067	011	.056	.01	.14	.15	L.01	0.16
81-12-10	0850	479	007	.003	.004	.17	.26	.30	L.01	0.31

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-16	1245	479	.5	--	62.0	3.0	.12	3.1	.007	.02 05P
80-02-13	1230	479	5	--	46.0	2.0	.11	2.1	--	--
80-03-12	1220	479	4	--	42.0	1.0	.23	1.2	--	--
80-04-14	1250	479	4	--	--	12.0 04D	--	--	--	--
80-05-20	1115	479	L.1	--	--	3.0 04D	--	--	--	--
80-06-09	1145	479	L.1	--	--	11.0 04D	6.20	17.2	--	--
80-07-28	1145	479	L.1	--	--	6.0 04D	7.00	13.0	--	--
80-08-29	1030	479	L.1	--	--	4.0 04D	.62	4.6	--	--
80-09-08	1050	479	L.1	--	--	8.0 04D	.61	8.6	--	--
80-10-20	1145	479	L.1	--	--	3.0 04D	.38	3.4	--	--
80-11-17	1145	479	L.1	--	--	5.0 04D	.36	5.4	--	--
80-12-08	1315	479	L.1	--	--	5.0 04D	.25	5.3	--	--
81-01-19	1140	479	.5	--	--	4.0 04D	.14	4.1	--	--
81-02-23	1220	479	.3	--	--	13.0 04D	4.90	17.9	--	--
81-03-16	1200	479	L.1	--	--	7.0 04D	4.10	11.1	--	--
81-04-06	0845	479	L.1	--	--	--	6.80	--	--	--
81-06-04	1000	479	L.1	--	--	5.6	.72	6.3	--	--
81-06-22	0855	479	L.1	--	--	5.0	1.80	6.8	--	--
81-07-20	1015	479	L.1	--	--	7.3	6.60	13.9	--	--
81-08-24	1000	479	L.1	--	--	3.5	.73	4.2	--	--
81-09-21	0845	479	L.1	--	--	3.4	4.80	8.2	--	--
81-10-26	1000	479	L.1	--	--	4.0	1.00	5.0	--	--
81-11-16	1000	479	L.1	--	--	3.3	.23	3.5	--	--
81-12-10	0850	479	L.1	--	--	5.0	20	5.2	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CE0001 LAT 51D 28M 8S LONG 112D 42M 29S
RED DEER RIVER AT DRUMHELLER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-16	1245	479	.04	L.0005 04L	L.0005 02L	.04	--	.06	--	L.02
80-02-13	1230	479	--	--	--	--	--	--	--	L.02
80-03-12	1220	479	--	--	--	--	--	--	--	L.02
80-04-14	1250	479	.19	.0008	L.0005	--	.07	--	.16	.11
80-05-20	1115	479	L.02	L.0005	L.0005	--	L.01	--	L.04	.14
80-06-09	1145	479	.13	L.0005	L.0005	--	L.01	--	.11	.02
80-07-28	1145	479	.08	.0007	L.0005	--	L.01	--	L.04	.07
80-08-28	1030	479	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-08	1050	479	.06	L.0005	L.0005	--	.01	--	.04	.02
80-10-20	1145	479	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-17	1145	479	.04	.0005	L.0005	--	.02	--	L.04	L.02
80-12-08	1315	479	.07	L.0005	L.0005	--	.02	--	.04	L.02
81-01-19	1140	479	.11	L.0005	L.0005	--	.02	--	L.04	.03
81-02-23	1220	479	.19	.0009	L.0005	--	.03	--	.06	.04
81-03-16	1200	479	.15	.0008	L.0005	--	.03	--	.05	L.02
81-04-06	0845	479	.10	.0005	L.0005	--	.03	--	.15	L.02
81-05-04	1000	479	.07	.0009	.0007	--	L.01	--	L.04	L.02
81-06-22	0855	479	.04	.0005	L.0005	--	L.01	--	L.04	L.02
81-07-20	1015	479	.09	.0008	L.0005	--	.02	--	.05	L.02
81-08-24	1000	479	.05 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-21	0845	479	.05 05D	L.0005	L.0005	--	L.01	--	L.04	.02
81-10-26	1000	479	.05 05D	L.0005	L.0005	--	.01	--	.28	L.02
81-11-16	1000	479	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-10	0850	479	.07 05D	.0005	L.0005	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE AG MG/L
80-01-16	1245	479	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-20	1115	479	--	L.001	--	--	L.002	--	.002	L.004
80-08-28	1030	479	--	L.001	--	--	L.002	--	L.002	L.004
80-10-20	1145	479	--	L.001	--	--	L.002	--	.002	L.004
81-01-19	1140	479	--	.004	--	--	.008	--	.012	L.004
81-05-04	1000	479	--	L.001	--	--	L.002	--	--	L.004
81-08-24	1000	479	--	L.001	--	--	L.002	--	L.002	L.004
81-10-26	1000	479	--	.004	--	--	L.002	--	.005	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-16	1245	479	.002	--	L.001	--	.54	L.10	L.001	--
80-05-20	1115	479	--	.002	--	.012	--	--	--	L.001
80-08-28	1030	479	--	L.001	--	.004	--	--	--	L.001
80-10-20	1145	479	--	L.001	--	L.001	--	--	--	L.001
81-01-19	1140	479	--	.001	--	.003	--	--	--	.001
81-05-04	1000	479	--	.003	--	--	--	--	--	L.001
81-08-24	1000	479	--	L.001	--	.003	--	--	--	L.001
81-10-26	1000	479	--	.004	--	.007	--	--	--	L.001

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CE0001
RED DEER RIVER AT DRUMHELLER, ALBERTA

LAT. 51D 28M 05 LONG. 112D 43M 29S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C29 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-16	1245	479	.15	--	L .004	--	--	L .001	--	--
80-02-13	1230	479	--	--	--	--	--	.001	--	--
80-03-12	1220	479	--	--	--	--	--	L .001	--	--
80-04-14	1250	479	--	--	--	--	--	.002	--	--
80-05-20	1115	479	--	.07	--	L .004	--	.002	--	--
80-06-08	1145	479	--	--	--	--	--	.002	--	--
80-07-28	1145	479	--	--	--	--	--	.002	--	--
80-08-29	1030	479	--	.07	--	L .004	--	.002	--	--
80-09-08	1050	479	--	--	--	--	--	L .001	--	--
80-10-20	1145	479	--	.07	--	L .004	--	L .001	--	--
80-11-17	1145	479	--	--	--	--	--	L .001	--	--
80-12-08	1315	479	--	--	--	--	--	L .001	--	--
81-01-19	1140	479	--	L .05	--	.005	--	L .001	--	--
81-02-23	1220	479	--	--	--	--	--	.004	--	--
81-03-16	1200	479	--	--	--	--	--	.001	--	--
81-04-06	0945	479	--	--	--	--	--	.002	--	--
81-05-04	1000	479	--	.12	--	L .004	--	L .001	--	--
81-06-22	0955	479	--	--	--	--	--	L .001	--	--
81-07-20	1015	479	--	--	--	--	--	.002	--	--
81-08-24	1000	479	--	.11	--	L .004	--	L .001	--	--
81-09-21	0945	479	--	--	--	--	--	.001	--	--
81-10-26	1000	479	--	.11	--	L .004	--	.002	--	--
81-11-16	1000	479	--	--	--	--	--	.001	--	--
81-12-10	0950	479	--	--	--	--	--	L .001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-16	1245	479	--	--	L .001	L .001	L .001	L .001	L .002	L .001
80-05-20	1115	479	--	--	L .001	L .001	.002	.001	L .002	L .001
80-08-29	1030	479	--	--	L .001	L .001	.006	L .001	L .002	L .001
80-10-20	1145	479	--	--	L .001	L .001	.006	L .001	L .002	L .001
81-01-19	1140	479	--	--	L .001	L .001	L .001	L .001	L .002	L .001
81-05-04	1000	479	--	--	L .001	L .001	.001	.001	L .002	L .001
81-08-24	1000	479	--	--	L .001	L .001	.002	L .001	L .002	L .001
81-10-26	1000	479	--	--	L .001	L .001	.005	L .001	L .002	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-16	1245	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
80-05-20	1115	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
80-08-29	1030	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
80-10-20	1145	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
81-01-19	1140	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
81-05-04	1000	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
81-08-24	1000	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002
81-10-26	1000	479	L .001	L .004	L .01	L .002	L .001	L .003	L .001	L .002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CE0001 LAT. 51D 28M 8S LONG. 112D 42M 29S
RED DEER RIVER AT DRUMHELLER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-16	1245	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-20	1115	479	L.002	L.001	L.003	L.002	L.2	.008	L.009	L.004
80-08-29	1030	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-20	1145	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-19	1140	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-04	1000	479	L.002	L.001	L.003	L.002	L.2	.007	L.009	L.004
81-08-24	1000	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-26	1000	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-16	1245	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-20	1115	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-29	1030	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-20	1145	479	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-01-19	1140	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-05-04	1000	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-08-24	1000	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-10-26	1000	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-16	1245	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-05-20	1115	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-08-29	1030	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-10-20	1145	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-01-19	1140	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-05-04	1000	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-08-24	1000	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-10-26	1000	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18280P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-16	1245	479	L.02	L.02	L.02	L.02	L.02
80-05-20	1115	479	L.02	L.02	L.02	L.02	L.02
80-08-29	1030	479	L.02	L.02	L.02	L.02	L.02
80-10-20	1145	479	L.02	L.02	L.02	L.02	L.02
81-01-19	1140	479	L.02	L.02	L.02	L.02	L.02
81-05-04	1000	479	L.02	L.02	L.02	L.02	L.02
81-08-24	1000	479	L.02	L.02	L.02	L.02	L.02
81-10-26	1000	479	L.02	L.02	L.02	L.02	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CK0001 LAT. 50D 54M 10S LONG. 110D 17M 48S
RED DEER RIVER AT BINDLOSS, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-15	1215	482	1.0	11.4	734.	702.	7.3	7.8	2.0	1.5
80-02-19	1200	482	0.0	15.8	801.	846.	--	7.9	1.7	1.8
80-03-18	1420	482	1.0	19.5	700.	583.	--	8.1	1.3	3.1
80-04-15	1150	482	6.0	22.2	400.	454.	7.9	7.9	800.0	--
80-05-21	1235	482	20.5	20.4	467.	513.	8.3	8.4	--	14.0
80-06-10	1000	482	18.0	21.0 61R	320.	345. 41R	7.8	8.0 01R	340.0	250.0 73R
80-07-29	1050	482	19.0	21.6	376.	417.	8.1	8.3	94.0	130.0
80-08-12	1135	482	17.0	18.5	408.	446.	8.0	8.2	910.0	920.0
80-09-09	1135	482	14.0	20.2	374.	416.	8.1	8.3	31.0	44.0
80-10-21	1215	482	5.5	21.3	445.	499.	8.5	8.3	19.8	30.0
80-11-18	1300	482	1.0	18.5	539.	587.	8.1	8.3	4.6	8.0
80-12-09	1400	482	0.0	21.2	619.	753.	8.0	8.3	1.4	2.5
81-01-20	1115	482	0.0	16.3	675.	730.	7.8	--	2.2	6.0
81-02-17	1130	482	.5	21.1	626.	701.	7.8	7.7	.5	2.1
81-03-17	1035	482	1.0	19.7	475.	505.	8.6	8.3	88.0	95.0
81-04-07	1255	482	4.0	19.9	428.	447.	8.1	8.1	80.0	110.0
81-05-05	1100	482	8.0	16.6 61R	505.	513. 41R	8.3	8.4 01R	14.0	8.7 73R
81-06-23	0830	482	16.5	18.6	393.	397.	8.2	8.4	88.0	62.0
81-07-21	0850	482	20.0	17.5	336.	340.	8.0	8.1	G1000.0	250.0
81-08-18	1030	482	22.0	25.5	380.	385.	8.1	8.3	80.0	56.0
81-09-22	1040	482	10.5	19.3	398.	422.	8.3	8.4	24.0	18.0
81-10-27	1020	482	2.5	21.0	471.	485.	8.4	8.3	12.0	4.2
81-11-17	1030	482	1.6	23.4	505.	485.	8.3	8.3	9.4	9.5
81-12-01	1045	482	.5	21.8	730.	702.	8.3	8.2	3.4	5.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL UNITS	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-15	1215	482	5.	--	6.	6.	.001 11F	2.	L2.	--
80-02-19	1200	482	30.	--	50.	46.	.002 11F	2.	L2.	--
80-03-18	1420	482	10.	--	13.	10.	L.001 11F	L2.	L2.	--
80-04-15	1150	482	90.	--	696.	70.	.160	--	100.	--
80-05-21	1235	482	30.	--	48.	45.	.004	--	21.	--
80-06-10	1000	482	500. 11R	--	831. 01R	763. 01R	.021 17T	500. 02U	70. 12U	--
80-07-29	1050	482	300.	--	266.	242.	.011	700.	140.	--
80-08-12	1135	482	40.	--	1916.	1783.	.053	--	1900.	--
80-09-09	1135	482	100.	--	130.	115.	.008	400.	120.	--
80-10-21	1215	482	80.	--	64.	60.	.010	30.	22.	--
80-11-18	1300	482	30.	--	17.	12.	.006	L2.	L2.	--
80-12-09	1400	482	40.	--	4.	3.	.004	L2.	L2.	--
81-01-20	1115	482	10.	--	9.	6.	L.001	L2.	L2.	--
81-02-17	1130	482	10.	--	3.	1.	.002	21.	2.	--
81-03-17	1035	482	200.	--	227.	214.	.070	L10.	L10.	--
81-04-07	1255	482	--	60.	232.	--	.040	60.	L10.	--
81-05-05	1100	482	--	10. 21R	30. 01R	27. 01R	.009 17T	8. 02U	6. 12U	--
81-06-23	0830	482	--	20.	146.	130.	.008	100.	30.	--
81-07-21	0850	482	--	20.	750.	--	.030	1000.	900.	--
81-08-18	1030	482	--	30.	122.	111.	.010	20.	20.	--
81-09-22	1040	482	--	20.	43.	--	.006	100.	90.	--
81-10-27	1020	482	--	20.	23.	19.	.007	10.	8.	--
81-11-17	1030	482	--	20.	25.	22.	.009	10.	--	--
81-12-01	1045	482	--	20.	8.	6.	.006	4.	L2.	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CK0001 LAT. 500 54M 10S LONG. 1100 17M 48S
RED DEER RIVER AT BINDLOSS, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101H OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-15	1215	482	6.0	0.	0.0	390.	320.0 06L	65.60	35.0	307.9
80-02-19	1200	482	8.6	0.	0.0	277.	227.0 06L	88.10	35.3	365.3
80-03-18	1420	482	3.3	0	0.0	301.	247.0 06L	74.00	27.0	295.9
80-04-15	1150	482	--	0.	0.0	207.	170.0	29.30	11.7	121.3
80-05-21	1235	482	8.2	0.	0.0	196.	161.0	52.40	18.4	206.6
80-06-10	1000	482	7.4	0.	0.0 51R	155.	127.0 01R	34.90 03R	12.6 02R	139.0
80-07-29	1050	482	7.6	0.	0.0	188.	154.0	45.00	14.7	172.9
80-08-12	1135	482	9.2	0.	0.0	173.	142.0	28.30	10.2	112.7
80-09-09	1135	482	10.0	0.	0.0	183.	150.0	42.00	16.0	170.8
80-10-21	1215	482	11.0	0.	0.0	211.	173.0	43.00	19.0	185.6
80-11-18	1300	482	12.9	0.	0.0	280.	230.0	60.80	22.8	245.7
80-12-09	1400	482	8.0	0.	0.0	351.	288.0	67.00	30.0	290.8
81-01-20	1115	482	3.1	--	0.0	--	280.0	71.00	29.0	296.7
81-02-17	1130	482	9.2	0.	0.0	327.	268.0	76.80	28.0	307.1
81-03-17	1035	482	13.4	0.	0.0	200.	164.0	43.00	14.9	168.7
81-04-07	1255	482	11.6	0.	0.0	180.	148.0	37.50	13.1	147.6
81-05-05	1100	482	10.5	5.	4.3 51R	230	197.0 01R	54.40 03R	15.5 02R	216.1
81-06-23	0830	482	8.5	0.	0.0	188.	154.0	46.00	15.1	177.0
81-07-21	0850	482	5.9	0.	0.0	206.	169.0	39.10	13.1	151.6
81-08-18	1030	482	7.5	0.	0.0	193.	158.0	47.00	14.8	178.3
81-09-22	1040	482	10.0	0.	.2	192.	158.0	41.50	16.6	172.0
81-10-27	1020	482	13.5	0.	0.0	230.	189.0	52.00	20.8	215.5
81-11-17	1030	482	12.7	0.	0.0	250.	205.0	54.90	20.5	221.5
81-12-01	1045	482	--	0.	0.0	344.	282.0	70.20	28.1	291.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-15	1215	482	438.	30.0	2.7	9.3	.20	97.	6.2	--
80-02-19	1200	482	410.	35.0	3.0	13.0	.17	94.	5.6	--
80-03-18	1420	482	378.	29.0	2.5	6.9	.15	84.	6.3	--
80-04-15	1150	482	278.	42.0	3.7	3.8	.16	78.	7.1	--
80-05-21	1235	482	279.	26.0	3.0	3.8	.17	76.	2.6	--
80-06-10	1000	482	182	15.0 03R	2.8 03R	1.7 06R	.12 05R	32. 06R	6.6 05R	--
80-07-29	1050	482	224.	17.0	2.2	2.5	.13	44.	6.2	--
80-08-12	1135	482	250.	55.0	3.2	3.0	.17	58.	7.0	--
80-09-09	1135	482	216.	18.0	2.0	2.7	.09	42.	2.8	--
80-10-21	1215	482	264.	21.0	1.9	4.8	.17	68.	2.1	--
80-11-18	1300	482	330.	29.0	2.1	5.2	.16	70.	2.4	--
80-12-09	1400	482	418.	42.0	2.7	7.7	.17	92.	3.6	--
81-01-20	1115	482	413.	32.0	3.1	6.9	.16	95.	7.8	--
81-02-17	1130	482	392.	32.0	2.8	7.6	.14	79.	5.2	--
81-03-17	1035	482	272.	35.0	4.6	6.2	.14	65.	5.0	--
81-04-07	1255	482	239.	32.0	6.0	4.5	L.05	51.	6.0	--
81-05-05	1100	482	301.	33.0 03R	3.7 03R	5.4 06R	.18 05R	65. 06R	1.3 05R	--
81-06-23	0830	482	215.	14.0	1.7	2.0	.14	38.	5.8	--
81-07-21	0850	482	200.	11.0	1.7	1.7	.14	26.	6.0	--
81-08-18	1030	482	207.	11.0	1.8	1.7	.08	27.	8.4	--
81-09-22	1040	482	216.	13.0	1.9	2.9	.15	43.	2.4	--
81-10-27	1020	482	271.	21.0	1.8	4.3	.16	56.	1.2	--
81-11-17	1030	482	290.	25.0	1.9	4.4	.11	58.	1.8	2.0
81-12-01	1045	482	434.	46.0	2.7	12.0	.22	102.	3.8	L1.0

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CK0001 LAT. 500 54M 10S LONG. 1100 17M 48S
RED DEER RIVER AT BINDLOSS, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-15	1215	482	.009	.007 03L	.002	.44 10L	--	.75	.03	.78
80-02-19	1200	482	.011	.005 03L	.006	.22 10L	--	.51	L.01	0.52
80-03-18	1420	482	.007	.007 03L	0.000	.06 10L	--	.57	.18	.75
80-04-15	1150	482	1.800	.025	1.775	2.20	2.90	3.00	.43	3.43
80-05-21	1235	482	.010	.005	.005	L.01	.17	.16	.23	.39
80-06-10	1000	482	.600 06R	.009 03V	.591	.28 10V	.62 51V	.64 51R	1.10 02R	1.74
80-07-29	1050	482	.180	.007	.173	L.01	.29	.30	.69	.99
80-08-12	1135	482	.820	.017	.803	.48	.75	.74	1.70	2.44
80-09-09	1135	482	.110	.005	.105	L.01	.29	.35	.30	.65
80-10-21	1215	482	.046	L.003	0.043	.03	.20	.25	.27	.52
80-11-18	1300	482	.023	.005	.018	.03	.21	.23	.10	.33
80-12-09	1400	482	.015	.006	.009	.06	.32	.27	.05	.32
81-01-20	1115	482	.024	.015	.009	.40	.70	.70	.07	.77
81-02-17	1130	482	.009	L.003	.009	.36	.61	.60	.10	.70
81-03-17	1035	482	.250	.050	.200	.65	1.20	1.20	.85	2.10
81-04-07	1255	482	.310	.032	.278	.47	1.00	1.10	.80	1.90
81-06-05	1100	482	.04E 06R	.007 03V	.039	L.01 10V	.23 51V	.23 51R	.19 02R	.42
81-06-23	0930	482	.160	.003	.157	L.01	.19	.20	.49	.69
81-07-21	0850	482	.580	.009	.571	L.01	.46	.46	.92	1.38
81-08-18	1030	482	.140	.007	.133	L.01	.23	.23	.38	.61
81-09-22	1040	482	.098	.003	.095	L.01	.15	.17	.18	.35
81-10-27	1020	482	.036	.007	.029	L.01	.15	--	.11	--
81-11-17	1030	482	.061	.007	.054	.01	.16	.16	.10	.26
81-12-01	1045	482	.022	L.003	0.019	.06	.30	.28	.05	.33

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-15	1215	482	--	--	76.0	5.0	.17	5.2	--	.03 05P
80-02-19	1200	482	--	--	64.0	4.0	.19	4.2	--	.03 05P
80-03-18	1420	482	--	--	58.0	4.0	.18	4.2	--	.01 05P
80-04-15	1150	482	--	--	--	10.0 04D	3.10	13.1	--	--
80-05-21	1235	482	--	--	--	4.0 04D	1.60	5.6	--	--
80-06-10	1000	482	--	--	--	9.0 04V	13.00 02R	22.0	--	--
80-07-29	1050	482	--	--	--	6.0 04D	6.70	12.7	--	--
80-08-12	1135	482	--	--	--	6.0 04D	28.30	34.3	--	--
80-09-09	1135	482	--	--	--	7.0 04D	1.80	8.8	--	--
80-10-21	1215	482	--	--	--	4.0 04D	2.30	6.3	--	--
80-11-18	1300	482	--	--	--	5.0 04D	.57	5.6	--	--
80-12-09	1400	482	--	--	--	6.0 04D	.25	6.3	--	--
81-01-20	1115	482	--	--	--	5.0 04D	.25	5.3	--	--
81-02-17	1130	482	--	--	--	4.0 04D	.30	4.3	--	--
81-03-17	1035	482	--	--	--	6.0 04D	6.10	12.1	--	--
81-04-07	1255	482	.1	--	--	--	6.90	--	--	1.30
81-06-05	1100	482	L.1 06W	L.003 56V	--	4.4 04R	1.30 02R	5.7	--	.16 02W
81-06-23	0930	482	L.1	L.003	--	5.0	5.30	10.3	--	.56
81-07-21	0850	482	L.1	.003	--	4.9	12.20	17.1	--	3.60
81-08-18	1030	482	L.1	L.003	--	5.6	3.40	9.0	--	.56
81-09-22	1040	482	L.1	L.003	--	2.6	1.40	4.0	--	.35
81-10-27	1020	482	L.1	L.003	--	3.6	.71	4.3	--	.39
81-11-17	1030	482	L.1	L.003	--	4.3	.76	5.1	--	.11
81-12-01	1045	482	L.1	.012	--	4.9	.29	5.2	--	L.06

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CK0001 LAT. 50D 54M 10S LONG. 110D 17M 48S
RED DEER RIVER AT BINDLOSS, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-15	1215	462	.05	.0008 04L	L.0005 02L	.01	--	.08	--	L.02
80-02-19	1200	462	.08	L.0005 04L	L.0005 02L	.02	--	.05	--	L.02
80-03-18	1420	462	.08	L.0005 04L	L.0005 02L	.02	--	L.04	--	L.02
80-04-15	1150	462	.15	L.0005	L.0005	--	.03	--	.05	.11
80-05-21	1235	462	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-10	1000	462	.10 05R	L.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	.05 11W
80-07-29	1050	462	.08	.0007	L.0005	--	L.01	--	L.04	L.02
80-08-12	1135	462	.10	.0008	L.0005	--	--	--	--	.14
80-09-09	1135	462	.07	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-21	1215	462	.03	L.0005	L.0005	--	L.01	--	L.04	.06
80-11-18	1300	462	.06	L.0005	L.0005	--	.01	--	L.04	L.02
80-12-09	1400	462	.07	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-20	1115	462	.17	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-17	1130	462	.17	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-17	1035	462	.17	.0005	L.0005	--	L.01	--	L.04	L.02
81-04-07	1255	462	.24	.0006	L.0005	--	L.01	--	.08	.03
81-05-05	1100	462	.04 05R	.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11W
81-06-23	0930	462	.08	.0005	L.0005	--	L.01	--	L.04	L.02
81-07-21	0850	462	.14	L.0005	L.0005	--	.03	--	.06	L.02
81-08-18	1030	462	.07	.0008	L.0005	--	L.01	--	L.04	L.02
81-09-22	1040	462	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-27	1020	462	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-17	1030	462	.04 05D	L.0005	L.0005	--	L.01	--	L.04	.03
81-12-01	1045	462	.08 05D	L.0005	L.0005	--	.02	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-15	1215	462	L.001	--	L.015	L.002	--	L.002	--	--
80-02-19	1200	462	L.001	--	L.015	L.002	--	L.002	--	--
80-03-18	1420	462	L.001	--	L.015	L.002	--	L.002	--	--
80-04-15	1150	462	--	.006	--	--	.009	--	.060	--
80-05-21	1235	462	--	.001	--	--	.003	--	.005	--
80-06-10	1000	462	--	.008 20W	--	--	.013 20W	--	.032 20W	--
80-07-29	1050	462	--	.004	--	--	.005	--	.015	--
80-08-12	1135	462	--	.027	--	--	.040	--	.100	--
80-09-09	1135	462	--	.005	--	--	L.002	--	.006	--
80-10-21	1215	462	--	L.001	--	--	L.002	--	.006	--
80-11-18	1300	462	--	L.001	--	--	L.002	--	.006	--
80-12-09	1400	462	--	L.001	--	--	L.002	--	.004	--
81-01-20	1115	462	--	.002	--	--	L.002	--	.009	--
81-02-17	1130	462	--	L.001	--	--	.003	--	.005	--
81-03-17	1035	462	--	.004	--	--	.002	--	.007	--
81-04-07	1255	462	--	L.001	L.015	--	.003	--	--	--
81-05-05	1100	462	--	.001 20W	L.015 02W	--	.002 20W	--	--	--
81-06-23	0930	462	--	.007	L.015	--	.002	--	.009	--
81-07-21	0850	462	--	.028	L.015	--	.008	--	.032	--
81-08-18	1030	462	--	.007	L.015	--	.003	--	.006	--
81-09-22	1040	462	--	.003	L.015	--	.004	--	.005	--
81-10-27	1020	462	--	.002	L.015	--	.003	--	.008	--
81-11-17	1030	462	--	.002	L.015	--	L.002	--	L.002	--
81-12-01	1045	462	--	L.001	L.015	--	L.002	--	.005	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CK0001 LAT. 500 54M 10S LONG. 1100 17M 48S
RED DEER RIVER AT BINDLOSS, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-15	1215	462	.001	--	.003	--	--	--	L.001	--
80-02-19	1200	462	L.001	--	.003	--	--	--	L.001	--
80-03-18	1420	462	.003	--	L.001	--	--	--	L.001	--
80-04-15	1150	462	--	.043	--	.710	--	--	--	L.001
80-05-21	1235	462	--	.002	--	.008	--	--	--	L.001
80-06-10	1000	462	--	.029 20W	--	.087 20W	--	--	--	L.001 20W
80-07-29	1050	462	--	.010	--	.031	--	--	--	L.001
80-08-12	1135	462	--	.070	--	.220	--	--	--	L.001
80-09-09	1135	462	--	.004	--	.013	--	--	--	L.001
80-10-21	1215	462	--	.004	--	.007	--	--	--	L.001
80-11-18	1300	462	--	.002	--	.006	--	--	--	L.001
80-12-09	1400	462	--	.002	--	.004	--	--	--	L.001
81-01-20	1115	462	--	.001	--	.008	--	--	--	L.001
81-02-17	1130	462	--	.001	--	.001	--	--	--	.002
81-03-17	1035	462	--	.006	--	.006	--	--	--	L.001
81-04-07	1255	462	--	.003	--	--	--	--	--	L.001
81-05-05	1100	462	--	.004 20W	--	--	--	--	--	L.001 20W
81-06-23	0830	462	--	.005	--	.014	--	--	--	L.001
81-07-21	0850	462	--	.024	--	.050	--	--	--	L.001
81-08-18	1030	462	--	.002	--	.010	--	--	--	L.001
81-09-22	1040	462	--	L.001	--	.007	--	--	--	L.001
81-10-27	1020	462	--	.005	--	.006	--	--	--	L.001
81-11-17	1030	462	--	.002	--	.005	--	--	--	L.001
81-12-01	1045	462	--	.001	--	L.001	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-15	1215	462	.14	--	L.004	--	.002	L.001	L1.0	L1.0
80-02-19	1200	462	.18	--	L.004	--	.001	L.001	L1.0	L1.0
80-03-18	1420	462	.11	--	L.004	--	.001	L.001	L1.0	L1.0
80-04-15	1150	462	--	1.10	--	.008	.016	.002	L1.0	L1.0
80-05-21	1235	462	--	.10	--	L.004	.007	.001	L1.0	L1.0
80-06-10	1000	462	--	.38 20W	--	.013 20W	.005 04W	.001 35W	L1.0 00W	L1.0 10W
80-07-29	1050	462	--	.12	--	L.004	.003	.001	L1.0	L1.0
80-08-12	1135	462	--	.44	--	.050	.005	.003	L1.0	L1.0
80-09-09	1135	462	--	.10	--	L.004	.004	.001	L1.0	L1.0
80-10-21	1215	462	--	.06	--	L.004	.002	L.001	L1.0	L1.0
80-11-18	1300	462	--	.07	--	L.004	.003	L.001	L1.0	L1.0
80-12-09	1400	462	--	.15	--	L.004	.007	L.001	L1.0	L1.0
81-01-20	1115	462	--	L.05	--	L.004	.023	L.001	L1.0	L1.0
81-02-17	1130	462	--	.15	--	L.004	.008	.001	L1.0	L1.0
81-03-17	1035	462	--	L.05	--	L.004	.028	.001	L1.0	L1.0
81-04-07	1255	462	--	.17	--	L.004	.009	.002	L1.0	L1.0
81-05-05	1100	462	--	.12 20W	--	L.004 20W	.002 04W	L.001 35W	L1.0 00W	L1.0 10W
81-06-23	0830	462	--	.14	--	L.004	L.001	L.001	L1.0	L1.0
81-07-21	0850	462	--	.36	--	.012	.005	L.001	L1.0	L1.0
81-08-18	1030	462	--	.14	--	L.004	.003	L.001	L1.0	L1.0
81-09-22	1040	462	--	.11	--	.L.004	.002	.001	L1.0	L1.0
81-10-27	1020	462	--	.13	--	L.004	L.001	.002	L1.0	L1.0
81-11-17	1030	462	--	.11	--	L.004	L.001	.001	L1.0	L1.0
81-12-01	1045	462	--	.14	--	L.004	.001	L.001	L1.0	L1.0

STATION - 00AL05CK0001 LAT. 50D 54M 10S LONG. 110D 17M 48S
RED DEER RIVER AT BINDLOSS, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-15	1215	462	L1.	.01	L.001	L.001	.001	L.001	L.002	L.001
80-02-19	1200	462	L1.	L.01	L.001	L.001	.001	L.001	L.002	L.001
80-03-18	1420	462	L1.	L.01	L.001	L.001	.001	L.001	L.002	L.001
80-04-15	1150	462	L1.	L.01	L.001	L.001	.007	L.001	L.002	L.001
80-05-21	1235	462	L1.	L.01	L.001	L.001	.003	.001	L.002	L.001
80-06-10	1000	462	L1. 21M	L.01 01M	L.001 30R	L.001 11R	.003 75R	L.001 70R	L.002 10R	L.001 20R
80-07-29	1050	462	L1.	L.01	L.001	L.001	.002	L.001	L.002	L.001
80-08-12	1135	462	L1.	L.01	L.001	L.001	.009	L.001	L.002	L.001
80-09-09	1135	462	L1.	L.01	L.001	L.001	.007	L.001	L.002	L.001
80-10-21	1215	462	L1.	L.01	L.001	L.001	L.001	L.001	L.002	L.001
80-11-18	1300	462	L1.	L.01	L.001	L.001	L.001	L.001	L.002	L.001
80-12-09	1400	462	L1.	L.01	L.001	L.001	.002	L.001	L.002	L.001
81-01-20	1115	462	L1.	L.01	L.001	L.001	.001	L.001	L.002	L.001
81-02-17	1130	462	1.	L.01	L.001	L.001	.003	L.001	L.002	L.001
81-03-17	1035	462	L1.	L.01	L.001	L.001	.005	.002	L.002	L.001
81-04-07	1255	462	L1.	L.01	L.001	L.001	L.001	L.001	L.002	L.001
81-05-05	1100	462	L1. 21M	L.01 01M	L.001 30R	L.001 11R	.002 75R	.001 70R	L.002 10R	L.001 20R
81-06-23	0930	462	L1.	L.01	L.001	L.001	.002	.002	L.002	L.001
81-07-21	0850	462	L1.	L.01	L.001	L.001	.006	.003	L.002	L.001
81-08-18	1020	462	L1.	L.01	L.001	L.001	.003	L.001	L.002	L.001
81-09-22	1040	462	L1.	L.01	L.001	L.001	.006	L.001	L.002	L.001
81-10-27	1020	462	--	L.01	L.001	L.001	.007	L.001	L.002	L.001
81-11-17	1030	462	--	L.01	L.001	L.001	.002	L.001	L.002	L.001
81-12-01	1045	462	--	--	L.001	L.001	.001	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-15	1215	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-02-19	1200	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-03-18	1420	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-04-15	1150	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-21	1235	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-06-10	1000	462	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
80-07-29	1050	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-12	1135	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-09-09	1135	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-21	1215	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-11-18	1300	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-12-09	1400	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-20	1115	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-02-17	1130	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-03-17	1035	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-04-07	1255	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-05	1100	462	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
81-06-23	0930	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-07-21	0850	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-18	1030	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-09-22	1040	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-27	1020	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-11-17	1030	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-12-01	1045	462	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05CK0001 — LAT. 50D 54M 10S LONG. 110D 17M 48S
RED DEER RIVER AT BINDLOSS, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-15	1215	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-02-19	1200	482	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
80-03-18	1420	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-04-15	1150	482	L.002	L.001	L.003	L.002	--	--	--	--
80-05-21	1235	482	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
80-06-10	1000	482	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20M	L.004 00M	L.009 50M	L.004 55M
80-07-29	1050	482	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004
80-08-12	1135	482	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
80-09-09	1135	482	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
80-10-21	1215	482	L.002	L.001	L.003	L.002	L.2	.005	L.009	L.004
80-11-18	1300	482	L.002	L.001	L.003	L.002	L.2	.004	L.009	L.004
80-12-09	1400	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-20	1115	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-02-17	1130	482	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004
81-03-17	1035	482	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
81-04-07	1255	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-05	1100	482	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20M	.007 00M	L.009 50M	L.004 55M
81-06-23	0830	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-07-21	0850	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-18	1030	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-09-22	1040	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-27	1020	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-11-17	1030	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-12-01	1045	482	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-15	1215	482	L.002	L.004	--	--	L.002	L.002	L.005	L.020
80-02-19	1200	482	L.002	L.004	--	--	L.002	L.002	L.005	L.020
80-03-18	1420	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-04-15	1150	482	--	--	L.2	--	L.002	L.002	L.005	L.020
80-05-21	1235	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-06-10	1000	482	L.002 10M	L.004 40M	L.2 01M	--	L.002 60R	L.002 61R	L.005 62R	L.020 64R
80-07-29	1050	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-12	1135	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-09-09	1135	482	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-10-21	1215	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-11-18	1300	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-12-09	1400	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-01-20	1115	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-02-17	1130	482	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-03-17	1035	482	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-04-07	1255	482	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-05-05	1100	482	L.002 10M	L.004 40M	L.2 01M	L.002 59R	L.002 60R	--	L.005 62R	L.002 64R
81-06-23	0830	482	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-21	0850	482	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-18	1030	482	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-09-22	1040	482	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-10-27	1020	482	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-11-17	1030	482	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-12-01	1045	482	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT — G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION — G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05DA0001 LAT. 52D 0M 10S LONG. 116D 28M 18S
NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-07	1400	417	1.0	18.5	--	330.	--	8.0	.8	.5
80-02-04	1430	417	2.0	17.5	--	314.	8.1	7.9	2.5	8.0
80-03-03	1425	417	.5	22.0	280.	338.	8.6	8.1	1.2	1.4
80-04-22	1130	417	1.5	20.1	244.	275.	8.4	8.1	--	1.6
80-05-13	1020	417	4.5	17.7	204.	230.	8.4	8.4	10.0	8.5
80-06-17	1015	417	8.0	19.9	162.	176.	8.0	8.2	280.0	315.0
80-07-28	1215	417	9.0	21.6	--	145.	8.3	8.2	120.0	125.0
80-08-19	1010	417	7.0	16.9	142.	149.	8.1	8.1	12.0	58.0
80-09-18	1030	417	6.0	17.7	189.	209.	8.0	8.1	5.4	7.5
80-10-07	1040	417	7.0	18.2	178.	200.	8.2	8.1	40.0	51.0
80-11-11	1245	417	0.0	19.0	245.	284.	8.2	8.0	.5	.8
80-12-02	1315	417	0.0	19.6	264.	300.	7.7	8.2	.6	2.3
81-01-13	1250	417	0.0	20.1	274.	317.	8.0	8.1	.2	1.4
81-02-24	1350	417	0.0	22.4	279.	326.	8.4	8.1	.6	.8
81-03-24	1035	417	1.5	18.4	310.	322.	8.3	8.1	1.4	3.0
81-04-22	1020	417	4.0	20.5	302.	318.	8.2	8.2	2.8	9.8
81-05-12	1020	417	5.0	16.9	271.	294.	8.2	8.1	3.0	3.2
81-06-16	0850	417	7.0	18.3	210.	217.	8.3	8.1	25.0	24.0
81-07-07	0820	417	6.5	16.1	175.	178.	8.2	8.2	95.0	64.0
81-08-10	1145	417	10.0	23.9	142.	162.	7.8	8.3	G200.0	130.0
81-09-15	0840	417	5.5	23.1	167.	176.	8.0	8.2	7.0	18.0
81-10-06	0830	417	3.0	23.5	221.	235.	8.1	8.1	3.6	4.2
81-11-03	0850	417	2.8	15.9	246.	264.	8.1	8.1	1.6	1.7
81-12-08	1015	417	0.0	22.0	279.	286.	8.1	8.1	1.4	.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-07	1400	417	5.	--	L1.	--	--	L2.	L2.	L2.
80-02-04	1420	417	5.	--	L1.	--	--	L2.	L2.	L2.
80-03-03	1425	417	10.	--	1.	--	--	L2.	L2.	L2.
80-04-22	1130	417	10.	--	6.	--	L.001	2.	L2.	L2.
80-05-13	1020	417	5.	--	10.	--	L.001	L2.	L2.	L2.
80-06-17	1015	417	100.	--	513.	--	.004	--	--	--
80-07-28	1215	417	60.	--	102.	--	--	--	--	--
80-08-19	1010	417	40.	--	84.	--	L.001	4.	L2.	8.
80-09-18	1030	417	10.	--	12.	--	L.001	L2.	L2.	L2.
80-10-07	1040	417	40.	--	63.	--	L.001	4.	L2.	L2.
80-11-11	1245	417	10.	--	2.	--	L.001	L2.	L2.	L2.
80-12-02	1315	417	20.	--	2.	--	L.001	5.	L2.	--
81-01-13	1250	417	10.	--	L1.	--	L.001	2.	L2.	L2.
81-02-24	1350	417	5.	--	1.	--	.001	L2.	L2.	L2.
81-03-24	1035	417	--	5.	3.	--	L.001	L1.	L1.	L1.
81-04-22	1020	417	--	10.	11.	--	L.001	L1.	L1.	L1.
81-05-12	1020	417	--	5.	5.	--	L.001	L1.	L1.	L1.
81-06-16	0850	417	--	20.	32.	--	L.001	L2.	L2.	2.
81-07-07	0820	417	--	5.	100.	--	L.001	20.	2.	80.
81-08-10	1145	417	--	5.	160.	--	L.001	--	--	--
81-09-15	0840	417	--	20.	33.	--	L.001	1.	1.	1.
81-10-06	0830	417	--	10.	5.	--	L.001	L1.	L1.	2.
81-11-03	0850	417	--	10.	1.	--	L.001	3.	3.	L1.
81-12-08	1015	417	--	5.	2.	--	L.001	L1.	L1.	L1.

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05DA0001
NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT, ALBERTA
LAT. 52D 00N 10S LONG. 116D 28M 10S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-07	1400	417	12.2	0.	0.0	138.	113.0 OGL	40.00	15.8	164.9
80-02-04	1420	417	11.9	0.	0.0	129.	106.0 OGL	35.50	15.4	152.1
80-03-03	1425	417	12.2	0.	0.0	126.	103.0 OGL	36.50	16.3	158.3
80-04-22	1130	417	13.1	0.	0.0	117.	96.0	34.00	12.1	134.7
80-05-13	1020	417	9.8	--	--	--	91.0	28.80	9.7	111.9
80-06-17	1015	417	11.2	0.	0.0	94.	77.0	23.80	6.7	87.0
80-07-28	1215	417	10.7	0.	0.0	85.	70.0	21.80	5.5	77.1
80-08-19	1010	417	10.9	0.	0.0	76.	62.0	22.80	5.8	80.8
80-09-16	1030	417	10.9	0.	0.0	95.	78.0	25.00	6.7	90.2
80-10-07	1040	417	10.8	0.	0.0	94.	77.0	25.00	7.5	93.3
80-11-11	1245	417	13.9	0.	0.0	121.	99.0	34.20	12.8	138.1
80-12-02	1315	417	12.5	0.	0.0	134.	110.0	35.70	14.2	147.6
81-01-13	1250	417	11.5	0.	0.0	130.	107.0	37.00	14.3	151.3
81-02-24	1350	417	11.6	0.	0.0	133.	109.0	38.70	15.8	161.7
81-03-24	1035	417	12.3	0.	0.0	132.	108.0	37.90	14.9	156.0
81-04-22	1020	417	10.9	0.	0.0	124.	102.0	38.00	15.5	158.7
81-05-12	1020	417	10.9	0.	0.0	133.	109.0	38.90	13.1	151.1
81-06-16	0850	417	10.1	0.	0.0	109.	89.0	28.30	9.4	109.4
81-07-07	0820	417	10.1	0.	0.0	93.	76.0	23.20	7.2	87.6
81-08-10	1145	417	10.2	0.	0.0	79.	65.0	22.00	6.3	80.9
81-09-15	0840	417	10.4	0.	0.0	82.	67.0	23.50	6.7	86.3
81-10-06	0830	417	11.2	0.	0.0	104.	85.0	29.50	10.1	115.2
81-11-03	0850	417	11.2	0.	0.0	112.	92.0	32.80	12.4	133.0
81-12-08	1015	417	11.7	0.	0.0	132.	108.0	37.20	13.9	150.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-07	1400	417	173.	1.3	.3	.6	.07	43.	4.0	--
80-02-04	1420	417	163.	1.2	.4	.6	.08	42.	3.9	--
80-03-03	1425	417	163.	1.3	.4	.6	.09	42.	4.2	--
80-04-22	1130	417	143.	.9	.4	.5	.06	34.	3.3	--
80-05-13	1020	417	118.	.5	.3	.4	L.05	21.	2.4	--
80-06-17	1015	417	90.	.4	1.0	.2	.05	10.	2.1	--
80-07-28	1215	417	82.	.4	.2	.2	.06	10.	1.5	--
80-08-19	1010	417	79.	.3	.2	.2	L.05	11.	1.6	--
80-09-16	1030	417	106.	.6	.2	.3	.06	22.	2.6	--
80-10-07	1040	417	100.	.6	.3	.3	.07	18.	2.1	--
80-11-11	1245	417	147.	1.0	.3	.5	.10	35.	3.3	--
80-12-02	1315	417	157.	1.0	.3	.5	.06	35.	3.8	--
81-01-13	1250	417	157.	.5	.3	.5	.09	36.	3.8	--
81-02-24	1350	417	168.	1.0	.3	.6	.10	42.	3.9	--
81-03-24	1035	417	165.	1.0	.3	.5	.09	42.	3.8	--
81-04-22	1020	417	161.	.9	.4	.5	.10	41.	3.6	--
81-05-12	1020	417	156.	1.0	.3	.4	L.05	33.	3.9	--
81-06-16	0850	417	112.	.6	.2	.3	L.05	17.	2.9	--
81-07-07	0820	417	90.	.4	.2	.2	L.05	11.	2.2	--
81-08-10	1145	417	79.	.3	.2	.2	.05	9.	1.8	--
81-09-15	0840	417	88.	.4	.2	.2	.05	15.	1.8	--
81-10-06	0830	417	118.	.6	.3	.3	.07	24.	2.6	--
81-11-03	0850	417	137.	1.1	.3	.5	.07	32.	2.8	--
81-12-08	1015	417	159.	1.0	.4	.4	.06	38.	3.6	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05DA0001 LAT. 52D 0M 10S LONG. 116D 28M 10S
NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-07	1400	417	L.003	L.003 03L	00.000	.13 10L	--	.16	L.01	Q.17
80-02-04	1430	417	L.003	L.003 03L	00.000	.19 10L	--	.19	.02	.21
80-03-03	1425	417	L.003	L.003 03L	00.000	.12 10L	--	.15	L.01	Q.16
80-04-22	1130	417	.008	.005	.003	.09	.10	.11	L.01	Q.12
80-05-13	1020	417	.007	.003	.004	.10	.10	.16	L.01	Q.17
80-06-17	1015	417	.230	.008	.222	.07	.08	.07	.26	.33
80-07-28	1215	417	.280	L.003 03L	Q.277	.07 10L	--	.12	.05	.17
80-08-19	1010	417	.027	L.003	Q.024	.04	.05	.06	.04	.10
80-09-16	1030	417	L.003	L.003	00.000	.05	.06	.07	.02	.09
80-10-07	1040	417	.017	L.003	Q.014	.07	.07	.09	.12	.21
80-11-11	1245	417	L.003	L.003	00.000	.10	.08	.11	.04	.15
80-12-02	1315	417	L.003	L.003	00.000	.11	.11	.12	L.01	Q.13
81-01-13	1250	417	L.003	L.003	00.000	.10	.12	.11	L.01	Q.12
81-02-24	1350	417	L.003	L.003	00.000	.09	.12	.13	L.01	Q.14
81-03-24	1035	417	.003	L.003	00.000	.11	.11	.14	L.01	Q.15
81-04-22	1020	417	--	L.003	--	.07	.11	.15	.06	.21
81-05-12	1020	417	.011	L.003	Q.008	.08	.09	.10	L.01	Q.11
81-06-16	0850	417	.012	L.003	Q.009	.08	.08	.08	.02	.10
81-07-07	0820	417	.035	.003	.032	.07	.07	.07	.03	.10
81-08-10	1145	417	.065	L.003	Q.062	.05	.06	.06	.05	.11
81-09-15	0840	417	.027	L.003	Q.024	.06	.07	.07	L.01	Q.08
81-10-06	0830	417	L.003	L.003	00.000	.06	.09	.08	L.01	Q.09
81-11-03	0850	417	L.003	L.003	00.000	.09	.09	--	L.01	--
81-12-08	1015	417	L.003	L.003	00.000	.09	.10	.10	L.01	Q.11

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-07	1400	417	--	--	25.0	1.0	.10	1.1	--	--
80-02-04	1420	417	--	--	22.0	1.0	.11	1.1	--	--
80-03-03	1425	417	--	--	19.0	L1.0	L.01	Q1.0	--	--
80-04-22	1130	417	--	--	--	1.0 04D	--	--	--	--
80-05-13	1020	417	--	--	--	1.0 04D	--	--	--	--
80-06-17	1015	417	--	--	--	1.0 04D	--	--	--	--
80-07-28	1215	417	--	--	--	L1.0	5.50	Q6.5	--	--
80-08-19	1010	417	--	--	--	L1.0 04D	3.20	Q4.2	--	--
80-09-16	1030	417	--	--	--	L1.0 04D	.30	Q1.3	--	--
80-10-07	1040	417	--	--	16.0 52D	L1.0 04D	2.40	Q3.4	--	--
80-11-11	1245	417	--	--	--	L1.0 04D	.07	Q1.1	--	--
80-12-02	1315	417	--	--	--	L1.0 04D	L.01	Q1.0	--	--
81-01-13	1250	417	--	--	--	L1.0 04D	.04	Q1.0	--	--
81-02-24	1350	417	--	--	--	L1.0 04D	.04	Q1.0	--	--
81-03-24	1035	417	--	--	--	.4	.27	.7	--	--
81-04-22	1020	417	--	--	--	--	2.00	--	--	--
81-05-12	1020	417	L.1	--	--	1.4	.16	1.6	--	--
81-06-16	0850	417	L.1	--	--	1.0	1.30	2.3	--	--
81-07-07	0820	417	L.1	--	--	.5	3.30	3.8	--	--
81-08-10	1145	417	L.1	--	--	.6	6.90	7.5	--	--
81-09-15	0840	417	L.1	--	--	.6	1.10	1.7	--	--
81-10-06	0830	417	L.1	--	--	.3	.20	.5	--	--
81-11-03	0850	417	L.1	--	--	1.0	.10	1.1	--	--
81-12-08	1015	417	L.1	--	--	.5	.07	.6	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05DA0001 LAT. 52D [illegible]M 16S LONG. 118D 20M 18S
NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-07	1400	417	--	--	--	--	--	--	--	L.02
80-02-04	1420	417	--	--	--	--	--	--	--	L.02
80-03-03	1425	417	--	--	--	--	--	--	--	L.02
80-04-22	1130	417	.03	L.0005 04L	L.0005 02L	--	L.01	--	L.04	L.02
80-05-13	1020	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-17	1015	417	L.02	L.0005	L.0005	--	L.01	--	L.04	.02
80-07-28	1215	417	.03	L.0005 04L	L.0005 02L	--	--	--	--	.05
80-08-18	1010	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-16	1030	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-07	1040	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-11	1245	417	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-02	1315	417	L.02	L.0005	L.0005	--	.01	--	L.04	.03
81-01-13	1250	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-24	1350	417	.04	L.0005	.0006	--	L.01	--	L.04	L.02
81-03-24	1035	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-04-22	1020	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-12	1020	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-06-16	0850	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-07	0820	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-08-10	1145	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-15	0840	417	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-06	0830	417	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-03	0850	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-08	1015	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - [illegible]
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA

LAT. 53O 22M 0S LONG. 113O 48M 0S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-14	1805	479	.5	16.9	330.	386.	7.9	7.7	1.4	2.0
80-02-11	1515	479	1.0	20.8	--	329.	7.9	7.8	1.9	2.8
80-03-10	1500	479	1.0	18.9	290.	346.	8.0	8.0	3.0	4.2
80-04-07	1600	479	1.0	15.5	280.	312.	7.9	8.0	--	36.0
80-05-20	1500	479	19.0	20.0	305.	352.	8.4	8.4	6.0	4.3
80-06-02	1340	479	13.5	15.5	270.	283.	--	8.4	--	42.0
80-07-07	1330	479	17.0	23.6	270.	308.	8.1	8.2	60.0	36.0
80-08-18	1430	479	18.0	18.8	--	343.	8.4	8.2	8.0	5.3
80-09-08	1350	479	13.0	20.0	285.	330.	8.4	8.3	--	4.7
80-10-06	1500	479	14.0	20.6	304.	348.	8.3	8.2	--	4.0
80-11-03	1500	479	4.0	20.0	309.	352.	8.3	8.3	8.0	4.7
80-12-01	1515	479	0.0	17.5	425.	380.	8.4	8.2	11.0	7.2
81-01-12	1445	479	.5	19.3	282.	347.	8.4	8.0	2.5	2.2
81-02-09	1510	479	1.0	14.9	280.	355.	8.2	7.9	4.0	3.0
81-03-02	1500	479	.5	22.2	345.	422.	8.2	7.9	3.0	2.1
81-04-14	1245	479	3.0	21.6	283.	350.	8.2	8.0	10.0	6.1
81-05-21	0730	479	14.0	21.0	226.	313.	8.1	8.2	104.0	52.0
81-06-22	1330	479	15.0	13.6	--	336.	8.3	8.4	24.0	12.0
81-07-13	1125	479	19.0	16.8	351.	356.	8.2	8.4	3.8	3.7
81-08-24	1400	479	18.0	25.2	294.	311.	8.3	8.3	22.0	7.6
81-09-08	1245	479	17.0	17.2	282.	303.	8.1	8.3	--	4.0
81-10-05	1315	479	8.0	23.4	298.	315.	7.9	8.3	--	2.5
81-11-02	1415	479	--	16.7	--	321.	8.5	8.2	4.0	4.3
81-12-07	1315	479	0.0	22.1	328.	308.	8.4	8.1	--	12.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-14	1805	479	5.	--	1.	--	--	--	--	2.
80-02-11	1515	479	5.	--	9.	--	--	2.	L2.	L2.
80-03-10	1500	479	10.	--	7.	--	--	18.	L2.	L2.
80-04-07	1600	479	50.	--	8.	--	L.001	17.	L2	540.
80-05-20	1500	479	10.	--	5.	--	L.001	L2.	17.	26.
80-06-02	1340	479	70.	--	77.	--	.003	--	L2	24.
80-07-07	1330	479	60.	--	76.	--	.002	--	14.	74.
80-08-18	1430	479	20.	--	10.	--	.001	--	14.	9.
80-09-08	1350	479	20.	--	9.	--	.003	2.	3.	9.
80-10-06	1500	479	30.	--	4.	--	L.001	2.	2.	L2.
80-11-03	1500	479	30.	--	8.	--	.001	L2.	L2.	6.
80-12-01	1515	479	30.	--	20.	--	L.001	--	L2.	--
81-01-12	1445	479	5.	--	3.	--	.001	L2.	--	L2.
81-02-09	1510	479	5.	--	5.	--	L.001	--	L2.	--
81-03-02	1500	479	20.	--	3.	--	L.001	7.	--	45.
81-04-14	1245	479	--	10.	16.	--	L.001	2.	L2.	1.
81-05-21	0730	479	--	20.	97.	--	.003	120.	2.	3.
81-06-22	1330	479	--	30.	19.	--	.001	--	20.	G120.
81-07-13	1125	479	--	10.	6.	--	L.001	8.	66.	122.
81-08-24	1400	479	--	10.	22.	--	.002	--	2.	L2.
81-09-08	1245	479	--	10.	11.	--	L.001	40.	10.	12.
81-10-05	1315	479	--	10.	3.	--	L.001	--	18.	L2.
81-11-02	1415	479	--	10.	4.	--	.001	L2.	2.	--
81-12-07	1315	479	--	10.	23.	--	.002	L1.	L2.	L1.

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - [illegible]
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA

LAT. 53D 22M 05 LONG. 113D 46M 55

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-14	1005	479	12.9	0.	0.0	144.	118.0 OGL	49.00	13.8	179.2
80-02-11	1515	479	12.2	0.	0.0	127.	104.0 OGL	38.50	13.0	149.7
80-03-10	1500	479	12.5	0.	0.0	134.	110.0 OGL	38.80	13.5	152.5
80-04-07	1800	479	12.2	0.	0.0	117.	96.0	36.40	10.7	134.9
80-05-20	1500	479	8.9	1.	.5	148.	122.0	45.10	13.6	168.6
80-06-02	1340	479	8.9	0.	0.0	137.	112.0	37.50	11.2	139.8
80-07-07	1330	479	--	0.	0.0	145.	119.0	39.80	10.8	143.3
80-08-19	1430	479	10.0	0.	0.0	162.	133.0	45.90	13.5	170.2
80-09-08	1350	479	11.0	0.	0.0	152.	125.0	42.80	12.7	159.2
80-10-06	1500	479	9.6	0.	0.0	163.	134.0	44.90	12.5	163.6
80-11-03	1500	479	12.4	0.	0.0	161.	132.0	43.90	12.8	162.3
80-12-01	1515	479	--	0.	0.0	172.	141.0	48.20	15.0	182.1
81-01-12	1445	479	12.5	0.	0.0	151.	124.0	45.00	13.1	166.3
81-02-09	1510	479	13.1	0.	0.0	156.	128.0	46.00	14.5	174.6
81-03-02	1500	479	11.6	0.	0.0	187.	153.0	52.30	14.7	191.1
81-04-14	1245	479	13.1	0.	0.0	150.	123.0	45.00	14.5	172.1
81-05-21	0730	479	9.8	0.	0.0	144.	118.0	40.40	12.0	150.3
81-06-22	1330	479	9.0	2.	2.0	159.	134.0	44.80	13.7	168.3
81-07-13	1125	479	8.4	0.	0.0	171.	140.0	48.00	14.4	179.1
81-08-24	1400	479	9.0	0.	0.0	156.	128.0	42.80	12.5	158.3
81-09-08	1245	479	8.9	0.	0.0	138.	113.0	41.80	12.3	155.0
81-10-05	1315	479	11.0	0.	0.0	150.	123.0	41.90	12.4	155.7
81-11-02	1415	479	11.6	0.	0.0	156.	128.0	43.40	12.9	161.5
81-12-07	1315	479	13.7	0.	0.0	152.	125.0	48.10	12.6	172.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-14	1005	479	196.	7.1	.7	6.3	.12	44.	4.5	--
80-02-11	1515	479	158.	3.3	.5	1.6	.10	35.	3.6	--
80-03-10	1500	479	167.	3.5	.6	1.5	.13	39.	4.4	--
80-04-07	1800	479	156.	5.4	3.5	1.7	.08	36.	4.4	--
80-05-20	1500	479	183.	4.5	.6	.7	.13	42.	3.2	--
80-06-02	1340	479	160.	4.6	.9	.8	.13	32.	6.0	--
80-07-07	1330	479	156.	4.0	1.0	.7	.06	23.	5.9	--
80-08-19	1430	479	181.	4.0	.7	.6	.07	32.	4.8	--
80-09-08	1350	479	171.	3.6	.7	.7	.07	31.	4.1	--
80-10-06	1500	479	182.	4.4	.8	.7	.15	34.	4.2	--
80-11-03	1500	479	181.	4.3	.7	.6	.10	35.	4.1	--
80-12-01	1515	479	200.	4.2	.7	.7	.10	42.	4.6	--
81-01-12	1445	479	178.	3.5	.7	.7	.13	36.	4.4	--
81-02-09	1510	479	184.	3.5	.6	.6	.13	38.	4.2	--
81-03-02	1500	479	217.	5.4	1.8	1.5	.16	43.	6.0	--
81-04-14	1245	479	181.	5.0	.9	.7	.16	37.	3.8	--
81-05-21	0730	479	164.	3.4	.8	.6	.14	31.	5.4	--
81-06-22	1330	479	178.	4.8	.9	.6	.11	28.	4.9	--
81-07-13	1125	479	192.	4.0	.7	.6	.14	36.	4.6	--
81-08-24	1400	479	168.	2.6	.5	.5	.15	27.	4.8	--
81-09-08	1245	479	159.	2.7	.6	.5	.10	30.	3.6	--
81-10-05	1315	479	165.	2.8	.6	.5	.12	30.	3.0	--
81-11-02	1415	479	173.	3.4	.6	.6	.12	32.	3.2	--
81-12-07	1315	479	180.	3.0	.6	.6	.09	36.	3.7	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - [illegible]
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA

LAT. 53D 22M [illegible] LONG. 113D [illegible]

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-14	1605	479	.040	.005 03L	.035	.08 10L	--	.16	.03	.19
80-02-11	1515	479	.016	L.003 03L	Q.013	.07 10L	--	.10	.04	.14
80-03-10	1500	479	.003	.003 03L	0.000	.08 10L	--	.06	.05	.11
80-04-07	1600	479	.120	.063	.057	.43	.91	.88	.34	1.22
80-05-20	1500	479	.190	.004	.186	L.01	.06	.05	.03	.08
80-06-02	1340	479	.064	.003	.061	L.01	.24	--	.17	--
80-07-07	1330	479	--	--	--	.03	.23	.23	.25	.48
80-08-19	1430	479	.010	L.003	Q.007	.01	.12	.11	.48	.59
80-09-08	1350	479	.005	L.003	Q.002	L.01	.09	.11	.12	.23
80-10-06	1500	479	.008	.006	.002	L.01	.11	.13	.04	.17
80-11-03	1500	479	L.003	L.003	Q0.000	L.01	.10	.16	.08	.24
80-12-01	1515	479	.025	.005	.020	.04	.13	.18	L.01	Q.19
81-01-12	1445	479	.009	.009	0.000	.07	.15	.14	.03	.17
81-02-09	1510	479	.007	L.003	Q.004	.07	.13	.15	L.01	Q.16
81-03-02	1500	479	.032	.021	.011	.07	.30	.31	.06	.37
81-04-14	1245	479	.020	.008	.012	.03	.14	.15	.14	.29
81-05-21	0730	479	.084	.003	.081	.03	.18	.20	.24	.44
81-06-22	1330	479	.014	L.003	Q.011	L.01	.13	.13	.07	.20
81-07-13	1125	479	.007	L.003	Q.004	L.01	.09	.09	.03	.12
81-08-24	1400	479	.021	.003	.018	.01	.07	.07	.05	.12
81-09-08	1245	479	.009	.004	.005	.01	.07	.07	L.01	Q.08
81-10-05	1315	479	L.003	L.003	Q0.000	L.01	.05	.07	L.01	Q.08
81-11-02	1415	479	.008	.006	.002	L.01	.07	.07	L.01	Q.08
81-12-07	1315	479	.009	L.003	Q.006	.05	.09	.15	.07	.22

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-14	1605	479	L.1	--	26.0	2.0	.22	2.2	L.005	.04 05P
80-02-11	1515	479	L.1	--	21.0	1.0	.26	1.3	--	--
80-03-10	1500	479	L.1	--	21.0	L1.0	.31	Q1.3	--	--
80-04-07	1600	479	.2	--	17.0 52D	6.0 04D	1.60	7.6	--	--
80-05-20	1500	479	L.1	--	--	L1.0 04D	--	--	--	--
80-06-02	1340	479	L.1	--	--	L1.0 04D	--	--	--	--
80-07-07	1330	479	L.1	--	--	5.0 04D	4.00	9.0	--	--
80-08-19	1430	479	L.1	--	--	3.0 04D	.47	3.5	--	--
80-09-08	1350	479	L.1	--	--	3.0 04D	.56	3.6	--	--
80-10-06	1500	479	L.1	--	--	3.0 04D	.15	3.2	--	--
80-11-03	1500	479	L.1	--	--	2.0 04D	.34	2.3	--	--
80-12-01	1515	479	L.1	--	--	3.0 04D	.66	3.7	--	--
81-01-12	1445	479	L.1	--	--	2.0 04D	.15	2.2	--	--
81-02-09	1510	479	L.1	--	--	2.0 04D	.23	2.2	--	--
81-03-02	1500	479	L.1	--	--	5.0 04D	.45	5.5	--	--
81-04-14	1245	479	L.1	--	--	--	.56	--	--	--
81-05-21	0730	479	L.1	--	--	5.1	2.40	7.5	--	--
81-06-22	1330	479	L.1	--	--	4.5	.71	5.2	--	--
81-07-13	1125	479	L.1	--	--	2.7	.29	3.0	--	--
81-08-24	1400	479	L.1	--	--	2.1	.64	2.7	--	--
81-09-08	1245	479	L.1	--	--	2.1	.33	2.4	--	--
81-10-05	1315	479	L.1	--	--	1.7	.14	1.8	--	--
81-11-02	1415	479	L.1	--	--	2.1	--	--	--	--
81-12-07	1315	479	L.1	--	--	1.9	.47	2.4	--	--

STATION - 00AL05DF0008
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA

LAT. 53D 22M 8S LONG. 113D 46M 5S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-14	1805	479	.04	L.0005 04L	L.0005 02L	L.01	--	.13	--	L.02
80-02-11	1515	479	--	--	--	--	--	--	--	L.02
80-03-10	1500	479	--	--	--	--	--	--	--	L.02
80-04-07	1800	479	.08	L.0005	L.0005	--	.03	--	.11	L.02
80-05-20	1500	479	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-02	1340	479	.08	L.0005	L.0005	--	L.01	--	.05	.08
80-07-07	1330	479	.06	L.0005	L.0005	--	L.01	--	.05	L.02
80-08-19	1430	479	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-08	1350	479	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-06	1500	479	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-03	1500	479	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-01	1515	479	.04	L.0005	L.0005	--	.03	--	L.04	L.02
81-01-12	1445	479	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-09	1510	479	.06	L.0005	L.0005	--	L.01	--	L.04	.02
81-03-02	1500	479	.07	L.0005	L.0005	--	L.01	--	.08	L.02
81-04-14	1245	479	.04	L.0005	.0005	--	L.01	--	L.04	L.02
81-05-21	0730	479	.07	L.0005	L.0005	--	L.01	--	.05	.02
81-06-22	1330	479	.04	L.0005	L.0005	--	.02	--	L.04	L.02
81-07-13	1125	479	.05	L.0005	L.0005	--	.02	--	L.04	L.02
81-08-24	1400	479	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-08	1245	479	.08 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-05	1315	479	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-02	1415	479	.03 05D	L.0005	L.0005	--	L.01	--	L.04	.02
81-12-07	1315	479	.03 05D	L.0005	L.0005	--	.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-14	1805	479	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-20	1500	479	--	.001	--	--	.004	--	.003	L.004
80-08-19	1430	479	--	L.001	--	--	L.002	--	L.002	L.004
80-10-06	1500	479	--	.001	--	--	L.002	--	.005	L.004
81-01-12	1445	479	--	.002	--	--	.007	--	.005	L.004
81-05-21	0730	479	--	L.001	--	--	.002	--	--	L.004
81-08-24	1400	479	--	L.001	--	--	L.002	--	.002	L.004
81-10-05	1315	479	--	L.001	--	--	L.002	--	L.002	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-14	1805	479	.003	--	.003	--	.40	L.10	L.001	--
80-05-20	1500	479	--	.001	--	.002	--	--	--	L.001
80-08-19	1430	479	--	L.001	--	.006	--	--	--	L.001
80-10-06	1500	479	--	.001	--	.007	--	--	--	L.001
81-01-12	1445	479	--	L.001	--	.001	--	--	--	.001
81-05-21	0730	479	--	.003	--	--	--	--	--	L.001
81-08-24	1400	479	--	L.001	--	.003	--	--	--	L.001
81-10-05	1315	479	--	L.001	--	.003	--	--	--	L.001

STATION - 00AL05EF0006 LAT. 53D 22M 8S LONG. 113D 45M 5S
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-14	1605	479	.05	--	.005	--	--	L.001	--	--
80-02-11	1515	479	--	--	--	--	--	L.001	--	--
80-03-10	1500	479	--	--	--	--	--	L.001	--	--
80-04-07	1500	479	--	--	--	--	--	.003	--	--
80-05-20	1500	479	--	.05	--	L.004	--	.001	--	--
80-06-02	1340	479	--	--	--	--	--	.002	--	--
80-07-07	1330	479	--	--	--	--	--	.001	--	--
80-08-19	1430	479	--	.05	--	L.004	--	.002	--	--
80-09-08	1350	479	--	--	--	--	--	.003	--	--
80-10-06	1500	479	--	L.05	--	L.004	--	L.001	--	--
80-11-03	1500	479	--	--	--	--	--	L.001	--	--
80-12-01	1515	479	--	--	--	--	--	.001	--	--
81-01-12	1445	479	--	.06	--	L.004	--	.001	--	--
81-02-09	1510	479	--	--	--	--	--	L.001	--	--
81-03-02	1500	479	--	--	--	--	--	.002	--	--
81-04-14	1245	479	--	--	--	--	--	L.001	--	--
81-05-21	0730	479	--	.09	--	L.004	--	.001	--	--
81-06-22	1330	479	--	--	--	--	--	L.001	--	--
81-07-13	1125	479	--	--	--	--	--	L.001	--	--
81-08-24	1400	479	--	.06	--	L.004	--	L.001	--	--
81-09-08	1245	479	--	--	--	--	--	.002	--	--
81-10-05	1315	479	--	.06	--	L.004	--	L.001	--	--
81-11-02	1415	479	--	--	--	--	--	.001	--	--
81-12-07	1315	479	--	--	--	--	--	L.001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-14	1605	479	--	--	L.001	L.001	.006	L.001	L.002	L.001
80-05-20	1500	479	--	--	L.001	L.001	.002	L.001	L.002	L.001
80-08-19	1430	479	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-10-06	1500	479	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-01-12	1445	479	--	--	L.001	L.001	.006	L.001	L.002	L.001
81-05-21	0730	479	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-08-24	1400	479	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-10-05	1315	479	--	--	L.001	L.001	.007	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-14	1605	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-20	1500	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-19	1430	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-06	1500	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-12	1445	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-21	0730	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-24	1400	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-05	1315	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05DF0008 LAT. 53D 22M 8S LONG. 113D 46M 5S
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-14	1605	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-20	1500	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-19	1430	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-06	1500	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-12	1445	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-21	0730	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-24	1400	479	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004
81-10-05	1315	479	L.002	L.001	L.003	L.002	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-14	1605	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-20	1500	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-19	1430	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-06	1500	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
81-01-12	1445	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-05-21	0730	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-08-24	1400	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-10-05	1315	479	--	--	--	L.002	L.002	--	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-14	1605	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-05-20	1500	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-08-19	1430	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-10-06	1500	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-01-12	1445	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-05-21	0730	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-08-24	1400	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-10-05	1315	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-14	1605	479	L.02	L.02	L.02	L.02	L.02
80-05-20	1500	479	L.02	L.02	L.02	L.02	L.02
80-08-19	1430	479	L.02	L.02	L.02	L.02	L.02
80-10-06	1500	479	L.02	L.02	L.02	L.02	L.02
81-01-12	1445	479	L.02	L.02	L.02	L.02	L.02
81-05-21	0730	479	L.02	L.02	L.02	L.02	L.02
81-08-24	1400	479	L.02	L.02	L.02	L.02	L.02
81-10-05	1315	479	L.02	L.02	L.02	L.02	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05EC0005 LAT. 54D 0M 10S LONG. 112D 23M 53S
NORTH SASKATCHEWAN RIVER AT PAKAN, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-15	1140	479	--	16.5	--	417.	7.7	7.5	--	30.0
80-02-12	1320	479	0.0	20.9	310.	356.	7.4	7.8	5.4	7.5
80-03-11	1415	479	.5	18.1	300.	374.	7.7	7.8	5.0	3.4
80-04-08	1545	479	3.0	18.3	300.	333.	8.0	7.8	--	82.0
80-05-21	1435	479	10.0	18.1	340.	391.	8.6	8.6	2.8	2.6
80-06-03	1430	479	14.0	20.3	270.	308.	--	7.8	106.0	58.0
80-07-08	1230	479	19.0	24.5	280.	316.	8.1	8.1	66.0	40.0
80-08-20	1350	479	17.0	19.7	--	366.	8.8	8.6	8.0	1.8
80-09-09	1315	479	14.0	22.1	302.	373.	8.2	8.1	12.0	6.7
80-10-07	1300	479	13.0	18.9	331.	384.	8.4	8.4	8.0	2.0
80-11-04	1400	479	4.0	20.0	335.	405.	8.4	8.3	7.0	3.3
80-12-02	1500	479	0.0	19.6	380.	462.	8.3	8.1	4.0	2.8
81-01-13	1500	479	.5	20.4	312.	382.	8.2	7.8	4.0	3.2
81-02-10	1445	479	.5	20.7	295.	396.	8.0	7.9	5.0	4.2
81-04-15	1045	479	4.5	21.4	322.	387.	8.2	7.9	26.0	18.0
81-05-20	1245	479	13.5	20.6	235.	309.	7.9	8.0	--	76.0
81-06-23	1215	479	15.0	22.0	--	352.	8.2	8.3	36.0	17.0
81-07-14	0840	479	19.0	19.1	365.	365.	8.4	8.6	4.0	30.0
81-08-26	0905	479	19.5	19.5	253.	322.	8.3	8.3	32.0	13.0
81-09-09	1215	479	17.0	23.0	295.	322.	8.4	8.7	--	1.4
81-10-06	1330	479	8.0	23.5	328.	347.	--	8.5	8.0	2.1
81-11-03	1245	479	--	16.9	--	357.	8.4	8.2	6.0	3.0
81-12-08	1315	479	0.0	22.0	374.	354.	8.2	8.0	--	9.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-15	1140	479	20.	--	9. 01R	--	--	2000. 02U	900. 12U	300. 03U
80-02-12	1320	479	5.	--	20.	--	--	1060.	160.	220.
80-03-11	1415	479	20.	--	12.	--	--	8100.	1670.	840.
80-04-08	1545	479	80.	--	117.	--	L.001	110.	93.	1700.
80-05-21	1435	479	10.	--	3.	--	.014	180.	10.	L2.
80-06-03	1430	479	120.	--	123.	--	.002	1500.	1440.	850.
80-07-08	1230	479	80.	--	100.	--	L.001	2700.	380.	175.
80-08-20	1350	479	30.	--	9.	--	.027	5900.	1300.	20.
80-09-09	1315	479	30.	--	15.	--	.004	250.	10.	3.
80-10-07	1300	479	30.	--	5.	--	.011	7200.	770.	170.
80-11-04	1400	479	20.	--	9.	--	.020	--	--	540.
80-12-02	1500	479	30.	--	3.	--	L.001	--	--	--
81-01-13	1500	479	10.	--	7.	--	.003	2200.	430.	1000.
81-02-10	1445	479	5.	--	5.	--	.003	--	--	--
81-04-15	1045	479	--	40.	36.	--	.010	7400.	318.	155.
81-05-20	1245	479	--	30.	162.	--	.010	3800.	385.	82.
81-06-23	1215	479	--	20.	28.	--	.006	--	250.	30.
81-07-14	0840	479	--	10.	18.	--	.009	280.	17.	200.
81-08-26	0905	479	--	10.	20.	--	L.001	400.	10.	180.
81-09-09	1215	479	--	10.	5.	--	.010	1160.	40.	3.
81-10-06	1330	479	--	10.	4.	--	.009	80.	L10.	L3.
81-11-03	1245	479	--	20.	6.	--	.009	--	--	--
81-12-08	1315	479	--	10.	15.	--	.006	1020.	100.	30.

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05EC0005 LAT. 54D 0M 10S LONG. 112D 23M 53S
NORTH SASKATCHEWAN RIVER AT PAKAN, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101H OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-15	1140	479	10.4	0.	0.0	152.	125.0 06L	51.20	14.7	188.4
80-02-12	1320	479	11.8	0.	0.0	133.	109.0 06L	41.30	13.6	159.1
80-03-11	1415	479	12.2	0.	0.0	140.	115.0 06L	40.10	14.4	159.4
80-04-08	1545	479	11.7	0.	0.0	122.	100.0	36.70	10.2	133.6
80-05-21	1435	479	9.7	0.	0.0	159.	130.0	48.60	14.2	179.8
80-06-03	1430	479	7.9	0.	0.0	133.	109.0	38.00	11.0	140.2
80-07-08	1230	479	--	0.	0.0	143.	117.0	38.80	10.5	140.5
80-08-20	1350	479	11.2	0.	0.0	163.	134.0	37.00	13.8	149.2
80-09-09	1315	479	9.8	0.	0.0	159.	130.0	44.00	12.8	162.6
80-10-07	1300	479	10.4	1.	1.1	166.	138.0	46.40	13.1	169.8
80-11-04	1400	479	12.7	0.	0.0	173.	142.0	46.30	13.7	172.0
80-12-02	1500	479	12.6	0.	0.0	194.	159.0	53.80	15.8	199.4
81-01-13	1500	479	11.9	0.	0.0	163.	134.0	46.00	13.1	168.8
81-02-10	1445	479	12.2	0.	0.0	163.	134.0	47.50	14.9	180.0
81-04-15	1045	479	12.2	0.	0.0	148.	121.0	44.00	13.5	165.5
81-05-20	1245	479	8.9	0.	0.0	138.	113.0	40.50	11.5	148.5
81-06-23	1215	479	8.4	0.	0.0	162.	133.0	46.80	12.5	168.3
81-07-14	0940	479	8.2	4.	3.3	160.	138.0	46.80	14.2	175.3
81-08-26	0905	479	8.4	0.	0.0	157.	129.0	42.40	12.1	155.7
81-09-09	1215	479	9.9	--	--	--	125.0	40.80	11.7	150.1
81-10-06	1330	479	11.5	0.	.2	160.	132.0	45.50	13.6	169.6
81-11-03	1245	479	11.6	0.	0.0	165.	135.0	45.90	13.6	170.6
81-12-08	1315	479	13.7	0.	0.0	167.	137.0	48.30	13.9	177.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-15	1140	479	208.	7.6	1.1	3.8	.16	50.	4.7	--
80-02-12	1320	479	170.	5.0	.7	2.5	.12	38.	3.8	--
80-03-11	1415	479	180.	5.9	.8	3.4	.15	42.	4.8	--
80-04-08	1545	479	168.	9.1	4.1	6.0	.10	37.	4.4	--
80-05-21	1435	479	204.	10.0	1.4	5.1	.15	46.	.6	--
80-06-03	1430	479	158.	7.1	1.3	2.7	.13	27.	5.8	--
80-07-08	1230	479	157.	5.0	1.1	1.3	.12	24.	6.0	--
80-08-20	1350	479	181.	7.6	1.0	3.1	.09	38.	.4	--
80-09-09	1315	479	190.	7.5	1.3	3.0	.08	40.	3.6	--
80-10-07	1300	479	196.	8.6	1.3	3.1	.16	38.	2.6	--
80-11-04	1400	479	207.	8.5	1.2	3.2	.11	46.	2.7	--
80-12-02	1500	479	235.	9.0	1.4	3.8	.12	51.	4.5	--
81-01-13	1500	479	193.	6.1	1.0	2.4	.14	39.	4.6	--
81-02-10	1445	479	202.	7.2	1.0	3.5	.15	43.	4.3	--
81-04-15	1045	479	197.	12.0	3.5	5.2	.18	42.	4.6	--
81-05-20	1245	479	161.	5.0	1.2	1.7	.13	28.	5.5	--
81-06-23	1215	479	187.	6.7	1.0	2.3	.18	33.	4.5	--
81-07-14	0940	479	194.	7.0	1.0	2.2	.15	38.	1.9	--
81-08-26	0905	479	173.	4.0	.8	1.7	.13	30.	4.6	--
81-09-09	1215	479	167.	4.3	.7	1.7	.13	30.	2.6	--
81-10-06	1330	479	182.	5.6	.8	2.1	.13	34.	1.2	--
81-11-03	1245	479	189.	6.1	1.0	2.4	.13	36.	2.8	--
81-12-08	1315	479	200.	5.8	1.0	2.9	.12	42.	3.7	--

STATION - 00AL05EC0005 — NORTH SASKATCHEWAN RIVER AT PAKAN, ALBERTA — LAT. 54D 0M 10S LONG. 112D 23M 53S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-15	1140	479	.120 06R	.084 03R	.036	.25 10R	--	.94 51R	.20 02R	1.14
80-02-12	1320	479	.084	.042 03L	.042	.19 10L	--	.50	.13	.63
80-03-11	1415	479	.062	.041 03L	.021	.17 10L	--	.45	.10	.55
80-04-08	1545	479	.340	.110	.230	.80	1.70	1.70	1.60	3.30
80-05-21	1435	479	.120	.089	.031	.56	.79	.71	.11	.82
80-06-03	1430	479	.180	.056	.124	.34	.67	.67	.37	1.04
80-07-08	1230	479	.089	.021	.058	.17	.38	.43	.23	.66
80-08-20	1350	479	L.003	L.003	00.000	.16	.27	.28	3.00	3.28
80-09-09	1315	479	.098	.065	.033	.32	.54	.54	.14	.68
80-10-07	1300	479	.078	.062	.016	.28	.51	.52	.16	.68
80-11-04	1400	479	.085	.069	.016	.22	.67	.58	.15	.73
80-12-02	1500	479	.100	.075	.025	.25	.76	.73	.07	.80
81-01-13	1500	479	.087	.069	.018	.30	.50	.48	.09	.57
81-02-10	1445	479	.082	.063	.019	.43	.59	.56	.09	.65
81-04-15	1045	479	.340	.240	.100	.16	1.10	1.00	.27	1.27
81-05-20	1245	479	.240	.032	.208	.19	.45	.50	.52	1.02
81-06-23	1215	479	.080	.040	.040	.37	.50	.51	.14	.65
81-07-14	0840	479	.053	.025	.028	.16	.32	.30	.14	.44
81-08-26	0805	479	.073	.041	.032	L.01	.26	.26	.10	.36
81-09-09	1215	479	.049	.035	.014	.05	.13	.15	.06	.21
81-10-06	1330	479	.065	.049	.016	.25	.37	.37	.05	.42
81-11-03	1245	479	.087	.067	.020	.24	.48	.44	.06	.50
81-12-08	1315	479	.120	.076	.044	.17	.67	.64	.17	.81

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-15	1140	479	.5 05M	--	27.0 52R	2.0 04R	1.50 02R	3.5	L.005 01M	.20 05M
80-02-12	1320	479	.4	--	23.0	1.0	1.10	2.1	--	--
80-03-11	1415	479	.3	--	22.0	1.0	.75	1.8	--	--
80-04-08	1545	479	.5	--	17.0 52D	8.0 04D	--	--	--	--
80-05-21	1435	479	.1	--	--	4.0 04D	--	--	--	--
80-06-03	1430	479	.3	--	--	9.0 04D	--	--	--	--
80-07-08	1230	479	L.1	--	--	6.0 04D	2.90	8.9	--	--
80-08-20	1350	479	L.1	--	--	3.0 04D	1.20	4.2	--	--
80-09-09	1315	479	.2	--	--	4.0 04D	1.00	5.0	--	--
80-10-07	1300	479	L.1	--	--	4.0 04D	.69	4.7	--	--
80-11-04	1400	479	.3	--	--	4.0 04D	.73	4.7	--	--
80-12-02	1500	479	.5	--	--	4.0 04D	.32	4.3	--	--
81-01-13	1500	479	.3	--	--	L1.0 04D	.39	Q1.4	--	--
81-02-10	1445	479	.3	--	--	2.0 04D	.59	2.6	--	--
81-04-15	1045	479	.8	--	--	--	1.70	--	--	--
81-05-20	1245	479	.1	--	--	7.0	8.40	15.4	--	--
81-06-23	1215	479	.1	--	--	4.0	1.20	5.2	--	--
81-07-14	0840	479	L.1	--	--	3.2	.92	4.1	--	--
81-08-26	0805	479	L.1	--	--	2.3	.56	2.9	--	--
81-09-09	1215	479	L.1	--	--	2.2	.42	2.6	--	--
81-10-06	1330	479	.2	--	--	1.8	.37	2.2	--	--
81-11-03	1245	479	L.1	--	--	2.0	.52	2.5	--	--
81-12-08	1315	479	L.1	--	--	2.0	1.40	3.4	--	--

STATION - 00AL05EC0005
NORTH SASKATCHEWAN RIVER AT PAKAN, ALBERTA

LAT. 54D 0M 10S LONG. 112D 23M 53S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-15	1140	479	.07	L.0005 04L	L.0005 02L	.04 04H	--	.35 04H	--	L.02 11H
80-02-12	1320	479	--	--	--	--	--	--	--	L.02
80-03-11	1415	479	--	--	--	--	--	--	--	L.02
80-04-08	1545	479	.11	.0006	L.0005	--	.05	--	.06	L.02
80-05-21	1435	479	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-03	1430	479	.10	L.0005	L.0005	--	L.01	--	L.04	.02
80-07-08	1230	479	.07	L.0005	L.0005	--	L.01	--	.04	L.02
80-08-20	1350	479	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-08	1315	479	.07	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-07	1300	479	.06	L.0005	L.0005	--	L.01	--	L.04	.03
80-11-04	1400	479	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-02	1500	479	.08	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-13	1500	479	.08	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-10	1445	479	.08	L.0005	L.0005	--	L.01	--	L.04	L.02
81-04-15	1045	479	.11	.0007	.0010	--	.03	--	.07	.03
81-05-20	1245	479	.08	L.0005	.0011	--	L.01	--	.06	.02
81-06-23	1215	479	.07	L.0005	L.0005	--	L.01	--	.08	L.02
81-07-14	0840	479	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-08-26	0805	479	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-08	1215	479	.08 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-06	1330	479	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-03	1245	479	.08 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-08	1315	479	.07 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-15	1140	479	L.001 02H	--	L.015 02H	L.002 02H	--	.004 02H	--	L.004 01H
80-05-21	1435	479	--	.001	--	--	.002	--	.005	L.004
80-08-20	1350	479	--	L.001	--	--	L.002	--	.004	L.004
80-10-07	1300	479	--	L.001	--	--	L.002	--	.006	L.004
81-01-13	1500	479	--	.018	--	--	.010	--	.006	.004
81-05-20	1245	479	--	L.001	--	--	.002	--	--	L.004
81-08-26	0805	479	--	.001	--	--	L.002	--	.004	L.004
81-10-06	1330	479	--	L.001	--	--	L.002	--	L.002	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-15	1140	479	.004 05H	--	.010 05H	--	.43 01H	L.10 01H	L.001 02H	--
80-05-21	1435	479	--	.001	--	.011	--	--	--	L.001
80-08-20	1350	479	--	.002	--	.005	--	--	--	L.001
80-10-07	1300	479	--	.001	--	.006	--	--	--	L.001
81-01-13	1500	479	--	.002	--	.007	--	--	--	.001
81-05-20	1245	479	--	.004	--	--	--	--	--	L.001
81-08-26	0805	479	--	L.001	--	.006	--	--	--	L.001
81-10-06	1330	479	--	.001	--	.010	--	--	--	L.001

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05EC0005
NORTH SASKATCHEWAN RIVER AT PAKAN, ALBERTA — LAT. 54D 0M 10S LONG. 112D 23M 53S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-15	1140	479	.06 01M	--	L.004 02M	--	--	.001 35M	--	--
80-02-12	1320	479	--	--	--	--	--	L.001	--	--
80-03-11	1415	479	--	--	--	--	--	L.001	--	--
80-04-08	1545	479	--	--	--	--	--	.005	--	--
80-05-21	1435	479	--	.05	--	L.004	--	.001	--	--
80-06-03	1430	479	--	--	--	--	--	.002	--	--
80-07-08	1230	479	--	--	--	--	--	.003	--	--
80-08-20	1350	479	--	.08	--	L.004	--	.001	--	--
80-09-08	1315	479	--	--	--	--	--	.001	--	--
80-10-07	1300	479	--	L.05	--	L.004	--	.001	--	--
80-11-04	1400	479	--	--	--	--	--	L.001	--	--
80-12-02	1500	479	--	--	--	--	--	.001	--	--
81-01-13	1500	479	--	.08	--	.004	--	L.001	--	--
81-02-10	1445	479	--	--	--	--	--	L.001	--	--
81-04-15	1045	479	--	--	--	--	--	.001	--	--
81-05-20	1245	479	--	.10	--	L.004	--	.001	--	--
81-06-23	1215	479	--	--	--	--	--	L.001	--	--
81-07-14	0840	479	--	--	--	--	--	.002	--	--
81-08-26	0805	479	--	.06	--	L.004	--	L.001	--	--
81-09-08	1215	479	--	--	--	--	--	L.001	--	--
81-10-06	1330	479	--	.05	--	L.004	--	L.001	--	--
81-11-03	1245	479	--	--	--	--	--	.002	--	--
81-12-08	1315	479	--	--	--	--	--	L.001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULFONATS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-15	1140	479	--	--	L.001 30R	L.001 11R	.003 75R	L.001 70R	L.002 10R	L.001 20R
80-05-21	1435	479	--	--	L.001	L.001	.002	.002	L.002	L.001
80-08-20	1350	479	--	--	L.001	L.001	.004	.001	L.002	L.001
80-10-07	1300	479	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-01-13	1500	479	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-05-20	1245	479	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-08-26	0805	479	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-10-06	1330	479	--	--	L.001	L.001	.006	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-15	1140	479	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
80-05-21	1435	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-20	1350	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-07	1300	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-13	1500	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-20	1245	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-26	0805	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-06	1330	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL05EC0005
NORTH SASKATCHEWAN RIVER AT PAKAN, ALBERTA — LAT. 54D 0M 10S LONG. 112D 23M 53S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-15	1140	479	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	.500 00W	L.009 50W	L.004 55W
80-05-21	1435	479	L.002	L.001	L.003	L.002	L.2	.300	L.009	L.004
80-08-20	1350	479	L.002	L.001	L.003	L.002	L.2	.200	L.009	L.004
80-10-07	1300	479	L.002	L.001	L.003	L.002	L.2	.200	L.009	L.004
81-01-13	1500	479	L.002	L.001	L.003	L.002	L.2	.300	L.009	L.004
81-05-20	1245	479	L.002	L.001	L.003	L.002	L.2	.050	L.009	L.004
81-08-26	0905	479	L.002	L.001	L.003	L.002	L.2	.100	L.009	L.004
81-10-06	1330	479	L.002	L.001	L.003	L.002	L.2	.080	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-15	1140	479	.040 10W	L.004 40W	L.2 01W	--	L.002 60R	L.002 61R	L.005 62R	L.020 64R
80-05-21	1435	479	.010	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-20	1350	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-07	1300	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
81-01-13	1500	479	.040	L.004	L.2	--	L.002	L.002	L.005	L.002
81-05-20	1245	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-08-26	0905	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-10-06	1330	479	.010	L.004	--	L.002	L.002	--	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-15	1140	479	L.5 90W	L.2 95W	L.2 05W	L.02 15W	L.20 30W	L.02 40W	L.02 45W	L.05 50W
80-05-21	1435	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-08-20	1350	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-10-07	1300	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-01-13	1500	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-05-20	1245	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-08-26	0905	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-10-06	1330	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-15	1140	479	L.02 60W	L.02 70W	L.02 00W	L.02 10W	L.02 20W
80-05-21	1435	479	L.02	L.02	L.02	L.02	L.02
80-08-20	1350	479	L.02	L.02	L.02	L.02	L.02
80-10-07	1300	479	L.02	L.02	L.02	L.02	L.02
81-01-13	1500	479	L.02	L.02	L.02	L.02	L.02
81-05-20	1245	479	L.02	L.02	L.02	L.02	L.02
81-08-26	0905	479	L.02	L.02	L.02	L.02	L.02
81-10-06	1330	479	L.02	L.02	L.02	L.02	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL06AD0001 BEAVER RIVER AT BEAVER CROSSING, ALBERTA — LAT. 54D 21M 15S LONG. 110D 12M 42S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-16	1745	482	1.0	13.5	526.	571.	6.8	7.2	4.0	3.2
80-02-20	1750	482	0.0	19.1	580.	661.	6.8	7.2	3.8	5.6
80-03-19	2000	482	--	20.0	--	189.	6.7	7.3	--	8.2
80-04-16	1745	482	4.0	23.1	232.	290.	7.6	7.5	39.0	--
80-05-22	1425	482	16.0	20.5	432.	482.	8.3	8.3	--	3.4
80-06-12	0830	482	17.5	20.1	435.	461.	7.7	8.3	6.8	9.0
80-07-31	0730	482	17.0	20.8 61R	439.	482. 41R	8.1	8.4 01R	6.9	6.5 73R
80-08-14	1015	482	17.0	20.4	228.	257.	7.9	7.8	14.0	18.0
80-09-11	0850	482	13.0	20.7	240.	269.	7.8	8.0	6.7	8.0
80-10-22	1535	482	4.0	15.2	271.	309.	8.0	8.2	4.6	6.2
80-11-20	1020	482	0.0	15.7	444.	510.	7.6	7.9	2.8	5.0
80-12-11	1010	482	0.0	18.3	475.	561.	7.6	7.4	2.2	4.3
81-01-22	1500	482	0.0	19.9	470.	551.	7.4	7.2	3.2	6.0
81-02-19	0830	482	0.0	19.7	476.	545.	7.5	7.3	3.0	4.0
81-03-19	0810	482	0.0	23.1	490.	519.	7.6	7.2	6.0	6.3
81-04-08	1145	482	1.0	16.5	271.	287.	7.8	7.8	4.5	7.2
81-05-07	1145	482	10.0	21.3	310.	334.	8.0	8.0	6.7	5.1
81-06-25	1035	482	19.0	20.5	368.	370.	8.2	8.4	9.9	9.7
81-07-23	0640	482	18.5	22.6	237.	240.	8.0	7.9	14.0	10.0
81-08-20	0730	482	19.5	22.0	384.	391.	8.2	8.3	4.0	4.2
81-09-24	0745	482	9.0	19.4	437.	446.	8.2	8.3	2.6	2.5
81-10-28	1415	482	1.5	22.2	530.	528.	8.2	8.1	4.7	6.9
81-11-18	1445	482	.5	15.2	465.	468.	8.1	8.0	3.3	4.7
81-12-02	1420	482	0.0	23.7	560.	539.	7.8	7.8	3.8	4.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-16	1745	482	40.	--	L1.	L1.	L.001 11F	26.	4.	--
80-02-20	1750	482	60.	--	7.	5.	.005 11F	80.	24.	--
80-03-19	2000	482	40.	--	3.	L1.	.002 11F	2.	L2.	--
80-04-16	1745	482	90.	--	202.	181.	.021	75.	10.	--
80-05-22	1425	482	40.	--	7.	6.	.006	60.	40.	--
80-06-12	0830	482	60.	--	18.	12.	.011	32.	22.	--
80-07-31	0730	482	50. 11R	--	18. 01R	14 01R	.013 17T	50 02U	32. 12U	--
80-08-14	1015	482	80.	--	70.	64.	.047	40.	36.	--
80-09-11	0850	482	70.	--	30.	24.	.008	26.	26.	--
80-10-22	1535	482	80.	--	17.	13.	.007	60.	14.	--
80-11-20	1020	482	60.	--	8.	5.	.006	80.	2.	--
80-12-11	1010	482	60.	--	4.	3.	.005	166.	18.	--
81-01-22	1500	482	30.	--	6.	4.	L.001	118.	10.	--
81-02-19	0830	482	50.	--	5.	2.	L.001	146.	4.	--
81-03-19	0810	482	--	50.	9.	8.	.002	1450.	280.	--
81-04-08	1145	482	--	70.	14.	--	.004	122.	12.	--
81-05-07	1145	482	--	30.	14.	--	.020	192.	20.	--
81-06-25	1035	482	--	40.	23.	19.	.020	130.	90.	--
81-07-23	0640	482	--	50.	28.	21.	.010	80.	56.	--
81-08-20	0730	482	--	40.	9.	6.	.010	48.	30.	--
81-09-24	0745	482	--	30.	10.	7.	.003	10.	4.	--
81-10-28	1415	482	--	30.	2.	1.	.004	6.	6.	--
81-11-18	1445	482	--	40.	2.	1.	.005	6	4.	--
81-12-02	1420	482	--	40.	1.	L1.	.005	2.	L2.	--

STATION - 00AL06AD0001
BEAVER RIVER AT BEAVER CROSSING. ALBERTA

LAT. 54D 21M 18S LONG. 110D 12M 42S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101N OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-16	1745	482	1.2	0.	0.0	293.	240.0 06L	60.00	23.5	246.6
80-02-20	1750	482	.6	0.	0.0	329.	270.0 06L	67.00	26.0	274.3
80-03-19	2000	482	.2	0.	0.0	290.	238.0 06L	58.50	21.3	233.8
80-04-16	1745	482	11.5	0.	0.0	122.	100.0	25.80	10.1	106.0
80-05-22	1425	482	9.2	0.	0.0	261.	214.0	48.10	19.8	204.1
80-06-12	0830	482	8.3	0.	0.0	248.	203.0	47.10	19.0	195.8
80-07-31	0730	482	8.1	2.	2.0 51R	283.	220.0 01R	47.00 03R	19.4 02R	197.2
80-08-14	1015	482	9.2	0.	0.0	137.	112.0	29.50	11.4	120.6
80-09-11	0850	482	9.6	0.	0.0	152.	125.0	30.50	11.3	122.7
80-10-22	1535	482	12.1	0.	0.0	172.	141.0	33.70	12.7	136.4
80-11-20	1020	482	12.5	0.	0.0	280.	230.0	48.90	22.2	213.5
80-12-11	1010	482	4.5	0.	0.0	306.	251.0	57.20	23.7	240.4
81-01-22	1500	482	1.9	0.	0.0	300.	246.0	47.90	23.3	215.5
81-02-19	0830	482	1.7	0.	0.0	297.	244.0	55.70	23.5	235.8
81-03-19	0810	482	5.7	0.	0.0	249.	204.0	43.00	21.0	193.8
81-04-09	1145	482	11.9	0.	0.0	145.	119.0	30.00	13.0	128.4
81-05-07	1145	482	10.5	0.	0.0	179.	147.0	34.40	14.5	145.6
81-06-25	1035	482	8.6	0.	0.0	206.	169.0	41.50	15.9	169.1
81-07-23	0840	482	7.1	0.	0.0	135.	111.0	28.60	9.7	111.4
81-08-20	0730	482	7.4	0.	0.0	228.	187.0	43.50	16.0	174.5
81-09-24	0745	482	9.8	0.	0.0	257.	211.0	47.90	17.6	192.1
81-10-28	1415	482	14.6	0.	0.0	313.	257.0	58.40	21.6	234.8
81-11-18	1445	482	13.3	0.	0.0	283.	232.0	54.90	19.2	216.1
81-12-02	1420	482	10.4	0.	0.0	341.	280.0	62.90	21.8	246.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-16	1745	482	283.	16.0	4.0	4.5	.17	20.	11.0	--
80-02-20	1750	482	326.	25.0	4.9	5.3	.17	23.	13.0	--
80-03-19	2000	482	287.	23.0	4.5	4.3	.16	19.	14.0	--
80-04-16	1745	482	136.	6.6	8.9	3.5	.09	15.	6.4	--
80-05-22	1425	482	253.	22.0	4.6	5.1	.16	20.	4.1	--
80-06-12	0830	482	239.	21.0	3.8	4.1	.10	20.	2.6	--
80-07-31	0730	482	250.	23.0 03R	3.2 03R	5.6 06R	.16 05R	17. 06R	2.7 05R	--
80-08-14	1015	482	134.	7.4	1.4	1.4	.10	8.	7.8	--
80-09-11	0850	482	141.	7.5	1.5	1.4	.09	6.	7.6	--
80-10-22	1535	482	160.	11.0	1.8	2.2	.12	8.	6.1	--
80-11-20	1020	482	271.	22.0	4.3	5.2	.15	23.	7.6	--
80-12-11	1010	482	287.	23.0	3.5	4.7	.15	13.	11.0	--
81-01-22	1500	482	273.	18.0	4.0	4.3	.15	16.	12.0	--
81-02-19	0830	482	288.	25.0	4.0	5.7	.18	16.	12.0	--
81-03-19	0810	482	266.	28.0	8.5	10.0	L.05	24.	9.2	--
81-04-09	1145	482	152.	9.6	6.1	3.0	L.05	12.	6.6	--
81-05-07	1145	482	178.	15.0	3.8	3.4	.10	15.	3.4	--
81-06-25	1035	482	192.	15.0	2.3	3.0	.15	9.	3.8	--
81-07-23	0840	482	125.	7.0	1.0	1.4	.11	4.	6.2	--
81-08-20	0730	482	209.	19.0	1.7	3.3	.12	8.	4.8	--
81-09-24	0745	482	233.	21.0	2.0	4.7	.12	12.	1.0	--
81-10-28	1415	482	298.	30.0	2.5	6.4	.16	20.	5.2	--
81-11-18	1445	482	261.	22.0	1.9	4.2	.08	13.	7.0	L1.0
81-12-02	1420	482	319.	28.0	2.5	5.8	.19	20.	9.6	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL06AD0001
BEAVER RIVER AT BEAVER CROSSING, ALBERTA

LAT. 54D 21M 18S LONG. 110D 12M 42S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-16	1745	482	.072	.032 03L	.040	.25 10L	--	--	.08	--
80-02-20	1750	482	.096	.028 03L	.068	.20 10L	--	1.80	.07	1.87
80-03-19	2000	482	.100	.029 03L	.071	.17 10L	--	1.20	.09	1.29
80-04-16	1745	482	.440	.099	.341	.19	1.20	1.10	.76	1.86
80-05-22	1425	482	.081	.044	.037	L.01	.58	.54	.61	1.15
80-06-12	0830	482	.100	.024	.076	L.01	.58	.56	.36	.92
80-07-31	0730	482	.120 06R	.050 03V	.070	L.01 10V	.55 51V	.55 51R	.33 02R	.88
80-08-14	1015	482	.200	.031	.169	L.01	.60	.67	.87	1.54
80-09-11	0850	482	.084	.025	.059	L.01	.51	.56	.29	.85
80-10-22	1535	482	.070	.020	.050	.07	.57	.63	.23	.86
80-11-20	1020	482	.060	.032	.028	.20	.82	.89	.12	1.01
80-12-11	1010	482	.055	.031	.024	.29	1.00	.92	.07	.99
81-01-22	1500	482	.081	.052	.029	.24	.96	1.00	.08	1.10
81-02-19	0830	482	.068	.030	.038	.27	.93	.95	.13	1.10
81-03-19	0810	482	.270	.200	.070	.31	1.80	1.60	.32	1.92
81-04-09	1145	482	.180	.100	.080	.06	.70	.73	.23	.96
81-05-07	1145	482	.074	.020	.054	L.01	.52	.50	.24	.74
81-06-25	1035	482	.100	.025	.075	L.01	.47	.47	.32	.79
81-07-23	0840	482	.130	.041	.089	.28	--	.56	.27	.83
81-08-20	0730	482	.068	.028	.040	L.01	.48	.47	.21	.68
81-09-24	0745	482	.046	.031	.015	.02	.44	.43	L.01	Q.44
81-10-28	1415	482	.059	.034	.025	.10	.53	.54	.04	.58
81-11-18	1445	482	.045	.028	.017	.11	.47	.47	L.01	Q.48
81-12-02	1420	482	.062	.041	.021	.22	.71	.73	L.01	Q.74

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-16	1745	482	--	--	55.0	18.0	.46	18.5	--	.02 05P
80-02-20	1750	482	--	--	51.0	15.0	.79	15.8	--	.02 05P
80-03-19	2000	482	--	--	43.0	15.0	.60	15.6	--	.01 05P
80-04-16	1745	482	--	--	--	15.0 04D	6.90	21.9	--	--
80-05-22	1425	482	--	--	--	12.0 04D	1.30	13.3	--	--
80-06-12	0830	482	--	--	--	12.0 04D	2.40	14.4	--	--
80-07-31	0730	482	--	--	--	12.0 04V	2.20 02R	14.2	--	--
80-08-14	1015	482	--	--	--	17.0 04D	5.40	22.4	--	--
80-09-11	0850	482	--	--	--	14.0 04D	1.90	15.9	--	--
80-10-22	1535	482	--	--	--	13.0 04D	1.40	14.4	--	--
80-11-20	1020	482	--	--	--	16.0 04D	.78	16.8	--	--
80-12-11	1010	482	--	--	--	16.0 04D	.48	16.5	--	--
81-01-22	1500	482	--	--	--	16.0 04D	.69	16.7	--	--
81-02-19	0830	482	--	--	--	15.0 04D	.66	15.7	--	--
81-03-19	0810	482	--	--	--	16.0	1.70	17.7	--	.16
81-04-09	1145	482	L.1	--	--	--	1.30	--	--	.07
81-05-07	1145	482	L.1	.007	--	10.0	1.50	11.5	--	.09
81-06-25	1035	482	L.1	.009	--	12.0	2.30	14.3	--	.17
81-07-23	0840	482	L.1	.027	--	15.0	2.20	17.2	--	.17
81-08-20	0730	482	L.1	.007	--	13.0	1.10	14.1	--	L.06
81-09-24	0745	482	L.1	.022	--	9.7	.23	9.9	--	L.06
81-10-28	1415	482	L.1	.025	--	12.0	.30	12.3	--	L.06
81-11-18	1445	482	L.1	.019	--	12.0	.26	12.3	--	--
81-12-02	1420	482	L.1	.027	--	12.0	.37	12.4	--	L.06

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL06AD0001
BEAVER RIVER AT BEAVER CROSSING, ALBERTA

LAT. 54D 21M 16S LONG. 110D 13M 42S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-16	1745	482	.08	L.0005 04L	L.0005 02L	.42	--	.84	--	L.02
80-02-20	1750	482	.15	L.0005 04L	L.0005 02L	.88	--	.67	--	L.02
80-03-19	2000	482	.15	L.0005 04L	L.0005 02L	1.30	--	.91	--	L.02
80-04-16	1745	482	.15	.0006	L.0005	--	.11	--	.28	.05
80-05-22	1425	482	.11	.0005	L.0005	--	.02	--	.06	L.02
80-06-12	0830	482	.08	.0009	L.0005	--	L.01	--	L.04	.07
80-07-31	0730	482	.11 05R	.0011 04V	L.0005 02V	--	.03 04T	--	L.04 04T	L.02 11M
80-08-14	1015	482	.11	.0008	L.0005	--	.01	--	.15	L.02
80-09-11	0850	482	.13	.0009	L.0005	--	.01	--	.18	L.02
80-10-22	1535	482	.11	.0005	L.0005	--	.02	--	.29	L.02
80-11-20	1020	482	.14	.0007	L.0005	--	.03	--	.27	L.02
80-12-11	1010	482	.15	.0006	L.0005	--	.05	--	.29	L.02
81-01-22	1500	482	.24	L.0005	L.0005	--	.26	--	.15	L.02
81-02-19	0830	482	.26	L.0005	L.0005	--	.34	--	.20	.08
81-03-18	0810	482	.26	.0007	L.0005	--	.17	--	.18	L.02
81-04-08	1145	482	.19	L.0005	L.0005	--	.03	--	.27	L.02
81-05-07	1145	482	.14	.0005	L.0005	--	.01	--	.12	L.02
81-06-25	1035	482	.14	.0006	L.0005	--	L.01	--	.05	L.02
81-07-23	0840	482	.16	L.0005	L.0005	--	.03	--	.12	L.02
81-08-20	0730	482	.11 05D	.0012	L.0005	--	.03	--	.05	L.02
81-09-24	0745	482	.09 05D	.0009	L.0005	--	.04	--	.07	L.02
81-10-28	1415	482	.12 05D	L.0005	L.0005	--	.06	--	.07	L.02
81-11-18	1445	482	.13 05D	.0005	L.0005	--	.03	--	.08	L.02
81-12-02	1420	482	.14 05D	L.0005	L.0005	--	.04	--	.09	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-16	1745	482	L.001	--	L.015	L.002	--	L.002	--	--
80-02-20	1750	482	L.001	--	L.015	L.002	--	L.002	--	--
80-03-19	2000	482	L.001	--	L.015	L.002	--	L.002	--	--
80-04-16	1745	482	--	.005	--	--	L.002	--	.011	--
80-05-22	1425	482	--	L.001	--	--	.004	--	.007	--
80-06-12	0830	482	--	L.001	--	--	.002	--	L.002	--
80-07-31	0730	482	--	.003 20M	--	--	L.002 20M	--	L.002 20M	--
80-08-14	1015	482	--	.003	--	--	L.002	--	.005	--
80-09-11	0850	482	--	.002	--	--	L.002	--	.002	--
80-10-22	1535	482	--	L.001	--	--	L.002	--	.005	--
80-11-20	1020	482	--	L.001	--	--	L.002	--	.007	--
80-12-11	1010	482	--	L.001	--	--	L.002	--	.003	--
81-01-22	1500	482	--	.002	--	--	.002	--	.007	--
81-02-19	0830	482	--	L.001	--	--	.006	--	.007	--
81-03-18	0810	482	--	L.001	L.015	--	.003	--	L.002	--
81-04-08	1145	482	--	L.001	L.015	--	L.002	--	--	--
81-05-07	1145	482	--	L.001	L.015	--	.002	--	--	--
81-06-25	1035	482	--	.001	L.015	--	L.002	--	.008	--
81-07-23	0840	482	--	.002	L.015	--	L.002	--	L.002	--
81-08-20	0730	482	--	L.001	L.015	--	L.002	--	L.002	--
81-09-24	0745	482	--	.001	L.015	--	L.002	--	L.002	--
81-10-28	1415	482	--	L.001	L.015	--	L.002	--	L.002	--
81-11-18	1445	482	--	L.001	--	--	L.002	--	L.002	--
81-12-02	1420	482	--	L.001	L.015	--	L.002	--	.004	--

STATION - 00AL06AD0001 LAT. 54D 21M 18S LONG. 110D 12M 42S
BEAVER RIVER AT BEAVER CROSSING. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-16	1745	482	.003	--	.004	--	--	--	L.001	--
80-02-20	1750	482	.001	--	.002	--	--	--	L.001	--
80-03-19	2000	482	.002	--	.002	--	--	--	L.001	--
80-04-16	1745	482	--	.007	--	.010	--	--	--	L.001
80-05-22	1425	482	--	.001	--	.005	--	--	--	L.001
80-06-12	0830	482	--	.004	--	.008	--	--	--	L.001
80-07-31	0730	482	--	.002 20W	--	.006 20W	--	--	--	L.001 20W
80-08-14	1015	482	--	.003	--	.003	--	--	--	L.001
80-09-11	0850	482	--	.002	--	.013	--	--	--	L.001
80-10-22	1535	482	--	.001	--	.003	--	--	--	L.001
80-11-20	1020	482	--	.003	--	.013	--	--	--	L.001
80-12-11	1010	482	--	.002	--	.004	--	--	--	L.001
81-01-22	1500	482	--	.001	--	.003	--	--	--	L.001
81-02-19	0830	482	--	L.001	--	.010	--	--	--	.001
81-03-19	0810	482	--	.003	--	.007	--	--	--	L.001
81-04-09	1145	482	--	.003	--	--	--	--	--	L.001
81-05-07	1145	482	--	.002	--	--	--	--	--	L.001
81-06-25	1035	482	--	.002	--	.005	--	--	--	L.001
81-07-23	0840	482	--	.001	--	.005	--	--	--	L.001
81-08-20	0730	482	--	L.001	--	.004	--	--	--	L.001
81-09-24	0745	482	--	L.001	--	.004	--	--	--	L.001
81-10-28	1415	482	--	.003	--	.006	--	--	--	L.001
81-11-18	1445	482	--	.001	--	.002	--	--	--	L.001
81-12-02	1420	482	--	L.001	--	.001	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-16	1745	482	.05	--	L.004	--	.005	.003	L1.0	L1.0
80-02-20	1750	482	.11	--	L.004	--	.005	.003	L1.0	L1.0
80-03-19	2000	482	.08	--	L.004	--	.005	L.001	L1.0	L1.0
80-04-16	1745	482	--	.07	--	L.004	.007	.005	L1.0	L1.0
80-05-22	1425	482	--	.05	--	L.004	.004	.002	L1.0	L1.0
80-06-12	0830	482	--	L.05	--	L.004	.004	.002	L1.0	L1.0
80-07-31	0730	482	--	L.05 20W	--	L.004 20W	.004 04W	.001 35W	L1.0 00W	L1.0 10W
80-08-14	1015	482	--	.06	--	L.004	.004	.006	--	L1.0
80-09-11	0850	482	--	.05	--	L.004	.004	.002	L1.0	L1.0
80-10-22	1535	482	--	L.05	--	L.004	.004	.001	L1.0	L1.0
80-11-20	1020	482	--	L.05	--	L.004	.020	L.001	L1.0	L1.0
80-12-11	1010	482	--	.09	--	L.004	.026	.002	L1.0	L1.0
81-01-22	1500	482	--	L.05	--	L.004	.015	--	L1.0	L1.0
81-02-19	0830	482	--	.07	--	L.004	.009	L.001	L1.0	L1.0
81-03-19	0810	482	--	L.05	--	L.004	.020	.006	L1.0	L1.0
81-04-09	1145	482	--	.06	--	L.004	.004	.003	L1.0	L1.0
81-05-07	1145	482	--	.06	--	L.004	.003	.001	L1.0	L1.0
81-06-25	1035	482	--	.08	--	L.004	.001	.003	L1.0	L1.0
81-07-23	0840	482	--	.05	--	L.004	.003	--	L1.0	L1.0
81-08-20	0730	482	--	.07	--	L.004	.003	.001	L1.0	L1.0
81-09-24	0745	482	--	.05	--	L.004	.004	.006	L1.0	L1.0
81-10-28	1415	482	--	.07	--	L.004	.002	.006	L1.0	L1.0
81-11-18	1445	482	--	L.05	--	L.004	.002	.002	L1.0	L1.0
81-12-02	1420	482	--	.11	--	L.004	.004	.001	L1.0	L1.0

DETAILED WATER QUALITY DATA 1980-1981
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STATION - 00AL06AD0001   LAT. 54D 21M 15S   LONG. 110D 12M 42S
BEAVER RIVER AT BEAVER CROSSING, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L		10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L		18130L ALDRIN UG/L		17811L HEXACHLORO-BENZENE UG/L		18075L ALPHA-BHC UG/L		18070L GAMMA-BHC (LINDANE) UG/L		18010L P,P-DDE UG/L		18020L P,P-DDD UG/L	
80-01-16	1745	462	L1.		.01		L.001		L.001		.001		L.001		L.002		L.001	
80-02-20	1750	462	L1.		L.01		L.001		L.001		.002		L.001		L.002		L.001	
80-03-19	2000	462	L1.		L.01		L.001		L.001		.002		L.001		L.002		L.001	
80-04-16	1745	462	L1.		L.01		L.001		L.001		.003		L.001		L.002		L.001	
80-05-22	1425	462	L1.		.01		L.001		L.001		.001		L.001		L.002		L.001	
80-06-12	0830	462	L1.		.04		L.001		L.001		.003		L.001		L.002		L.001	
80-07-31	0730	462	L1.	21N	L.01	01N	L.001	30R	L.001	11R	.002	75R	L.001	70R	L.002	10R	L.001	20R
80-08-14	1015	462	L1.		L.01		L.001		L.001		.005		L.001		L.002		L.001	
80-09-11	0850	462	1.		L.01		L.001		L.001		.001		L.001		L.002		L.001	
80-10-22	1535	462	L1.		.01		L.001		L.001		L.001		L.001		L.002		L.001	
80-11-20	1020	462	L1.		L.01		L.001		L.001		.002		L.001		L.002		L.001	
80-12-11	1010	462	L1.		L.01		L.001		L.001		L.001		L.001		L.002		L.001	
81-01-22	1500	462	L1.		L.01		L.001		L.001		.003		L.001		L.002		L.001	
81-02-19	0830	462	L1.		.02		L.001		L.001		.002		L.001		L.002		L.001	
81-03-19	0910	462	L1.		.04		L.001		L.001		L.001		L.001		L.002		L.001	
81-04-08	1145	462	L1.		.02		L.001		L.001		.003		L.001		L.002		L.001	
81-05-07	1145	462	L1.		L.01		L.001		L.001		.002		L.001		L.002		L.001	
81-06-25	1035	462	L1.		.01		L.001		L.001		.005		L.001		L.002		L.001	
81-07-23	0840	462	L1.		L.01		L.001		L.001		.002		L.001		L.002		L.001	
81-08-20	0730	462	L1.		L.01		L.001		L.001		.002		L.001		L.002		L.001	
81-09-24	0745	462	L1.		L.01		L.001		L.001		.005		L.001		L.002		L.001	
81-10-28	1415	462	--		.01		L.001		L.001		.003		L.001		L.002		L.001	
81-11-18	1445	462	--		.02		L.001		L.001		.002		L.001		L.002		L.001	
81-12-02	1420	462	--		--		L.001		L.001		.001		L.001		L.002		L.001	

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L		18000L P,P-DDT UG/L		18030L P,P-METHOXY-CHLOR UG/L		18140L ENDRIN UG/L		18050L ALPHA-ENDOSULFAN UG/L		18055L BETA-ENDOSULFAN UG/L		18040L HEPTACHLOR UG/L		18045L HEPTACHLOR EPOXIDE UG/L	
80-01-16	1745	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-02-20	1750	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-03-19	2000	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-04-16	1745	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-05-22	1425	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-06-12	0830	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-07-31	0730	462	L.001	05R	L.004	00R	L.01	30R	L.002	40R	L.001	50R	L.003	55R	L.001	40R	L.002	45R
80-08-14	1015	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-09-11	0850	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-10-22	1535	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-11-20	1020	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
80-12-11	1010	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-01-22	1500	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-02-19	0830	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-03-19	0910	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-04-08	1145	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-05-07	1145	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-06-25	1035	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-07-23	0840	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-08-20	0730	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-09-24	0745	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-10-28	1415	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-11-18	1445	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	
81-12-02	1420	462	L.001		L.004		L.01		L.002		L.001		L.003		L.001		L.002	

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL06AD0001
BEAVER RIVER AT BEAVER CROSSING, ALBERTA

LAT. 54D 21M 15S LONG. 110D 12M 42S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-16	1745	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-02-20	1750	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-03-19	2000	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-04-16	1745	462	L.002	L.001	L.003	L.002	L.2	.060	L.009	L.004
80-05-22	1425	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-06-12	0830	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-07-31	0730	462	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	.007 00W	L.009 50W	L.004 55W
80-08-14	1015	462	L.002	L.001	L.003	L.002	L.2	.004	L.009	L.004
80-09-11	0850	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-22	1535	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-11-20	1020	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-12-11	1010	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-22	1500	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-02-19	0830	462	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004
81-03-19	0810	462	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
81-04-09	1145	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-07	1145	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-06-25	1035	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-07-23	0840	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-20	0730	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-09-24	0745	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-28	1415	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-11-18	1445	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-12-02	1420	462	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-16	1745	462	L.002	L.004	--	--	L.002	L.002	L.005	L.020
80-02-20	1750	462	L.002	L.004	--	--	L.002	L.002	L.005	L.020
80-03-19	2000	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-04-16	1745	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-22	1425	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-06-12	0830	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-07-31	0730	462	L.002 10W	L.004 40W	L.2 01W	--	L.002 60R	L.002 61R	L.005 62R	L.020 64R
80-08-14	1015	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-09-11	0850	462	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-10-22	1535	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-11-20	1020	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
80-12-11	1010	462	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-01-22	1500	462	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-02-19	0830	462	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-03-19	0810	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-04-09	1145	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-05-07	1145	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-06-25	1035	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-23	0840	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-20	0730	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-09-24	0745	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-10-28	1415	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-11-18	1445	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-12-02	1420	462	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION

G - GREATER THAN MEASUREMENT LIMIT
G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07AA0015 ATHABASCA RIVER AT HWY 93A, ATHABASCA FALLS.

LAT. 52D 39M 51S LONG. 117D 52M 50S
JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER	02061L TEMP. WATER	02041F SPECIFIC CONDUCT.	02041L SPECIFIC CONDUCT.	10301F PH	10301L PH	02073F TURBIDITY	02073L TURBIDITY
			DEG. C.	DEG. C.	USIE/CM	USIE/CM	PH UNITS	PH UNITS	JTU	JTU
80-01-07	1415	417	.5	18.3	--	239.	8.4	8.0	2.6	2.7
80-02-04	1645	417	1.0	17.6	--	228.	8.5	7.9	5.2	8.3
80-04-21	1450	417	4.5	19.5	168.	189.	8.0	8.0	9.8	7.5
80-05-12	1400	417	2.5	17.9	185.	158.	8.4	8.1	--	8.8
80-06-16	1310	417	9.0	19.9	155.	149.	8.1	8.2	270.0	275.0
80-07-28	1530	417	10.0	21.5	--	482.	8.3	8.3	195.0	198.0
80-08-18	1500	417	9.0	17.1	132.	140.	8.1	8.2	39.0	61.0
80-09-15	1350	417	6.5	17.7	157.	170.	8.0	8.1	8.5	12.0
80-10-06	1320	417	7.0	19.3	160.	181.	8.2	8.1	15.0	21.0
80-11-10	1510	417	1.5	19.4	178.	210.	8.3	7.8	1.6	3.1
80-12-01	1540	417	0.0	19.4	200.	237.	7.8	8.2	2.1	4.3
81-01-12	1445	417	.5	19.9	200.	229.	8.2	8.0	1.5	2.8
81-02-09	1450	417	0.0	20.2	202.	236.	8.4	8.1	1.5	2.6
81-03-23	1230	417	.5	18.7	218.	227.	8.3	8.1	1.8	2.6
81-04-21	1220	417	3.5	21.1	209.	216.	8.3	8.1	2.9	4.6
81-05-11	1230	417	6.5	17.3	199.	211.	8.2	8.0	4.0	3.3
81-06-15	1235	417	8.0	17.7	167.	168.	8.2	8.1	22.0	16.0
81-07-06	1230	417	8.5	16.1	157.	144.	8.1	8.3	260.0	270.0
81-08-10	1515	417	11.0	23.9	130.	144.	8.1	8.3	G200.0	170.0
81-09-14	1220	417	6.5	23.2	152.	163.	7.9	8.2	--	14.0
81-10-05	1235	417	3.0	23.3	178.	187.	8.3	8.1	4.6	4.6
81-11-02	1230	417	5.5	16.5	185.	198.	8.1	8.0	4.6	3.8
81-12-07	1300	417	0.0	22.5	205.	207.	8.2	8.1	2.9	3.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT	02021L COLOUR TRUE	10401L RESIDUE NONFILTR.	10501L RESIDUE FIXED NONFILTR.	06717G CHLORO-PHYLL A	36002F COLIFORMS TOTAL	36012F COLIFORMS FECAL	36103F FECAL STREP.
			REL. UNITS	REL. UNITS	MG/L	MG/L	MG/L	MF NO/DL	MF NO/DL	MF NO/DL
80-01-07	1415	417	5.	--	L1.	--	--	L2.	L2.	L2.
80-02-04	1645	417	5.	--	2.	--	--	L2.	L2.	L2.
80-04-21	1450	417	10.	--	11.	--	L.001	2.	L2.	L2.
80-05-12	1400	417	10.	--	13.	--	L.001	L2.	L2.	L2.
80-06-16	1310	417	100.	--	513.	--	.004	--	--	--
80-07-28	1530	417	90.	--	161.	--	--	--	--	--
80-08-18	1500	417	40.	--	60.	--	L.001	40.	L2.	12.
80-09-15	1350	417	10.	--	12.	--	L.001	6.	L2.	L2.
80-10-06	1320	417	20.	--	26.	--	L.001	L2.	L2.	2.
80-11-10	1510	417	20.	--	6.	--	L.001	2.	L2.	L2.
80-12-01	1540	417	20.	--	2.	--	L.001	3.	2.	L2.
81-01-12	1445	417	5.	--	3.	--	L.001	L2.	L2.	L2.
81-02-09	1450	417	L5.	--	4.	--	L.001	2.	2.	L2.
81-03-23	1230	417	--	5.	2.	--	L.001	L1.	L1.	L1.
81-04-21	1220	417	--	10.	6.	--	L.001	L1.	L1.	L1.
81-05-11	1230	417	--	10.	5.	--	L.001	1.	1.	L1.
81-06-15	1235	417	--	10.	26.	--	L.001	40.	L2.	L2.
81-07-06	1230	417	--	5.	236.	--	L.001	L10.	L2.	2.
81-08-10	1515	417	--	5.	174.	--	L.001	--	--	--
81-09-14	1220	417	--	20.	30.	--	L.001	4.	L2.	8.
81-10-05	1235	417	--	10.	7.	--	L.001	L1.	L1.	1.
81-11-02	1230	417	--	20.	3.	--	L.001	1.	1.	1.
81-12-07	1300	417	--	5.	3. 01R	--	.001 17T	1. 02U	L1. 12U	L1. 03U

STATION - 00AL07AA0015 LAT. 52D 38M 51S LONG. 117D 52M 50S
ATHABASCA RIVER AT HWY 93A, ATHABASCA FALLS. JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101W OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-07	1415	417	12.5	0.	0.0	110.	90.0 06L	29.50	10.2	115.7
80-02-04	1645	417	12.9	0.	0.0	104.	85.0 06L	27.80	10.4	112.2
80-04-21	1450	417	12.2	0.	0.0	89.	73.0	23.70	7.4	89.6
80-05-12	1400	417	10.5	0.	0.0	83.	68.0	21.00	6.6	79.6
80-06-16	1310	417	11.2	0.	0.0	84.	69.0	21.50	5.3	75.5
80-07-28	1530	417	10.9	0.	0.0	83.	68.0	20.00	4.8	69.7
80-08-18	1500	417	9.8	0.	0.0	77.	63.0	21.30	5.2	74.6
80-09-15	1350	417	11.2	0.	0.0	83.	68.0	22.20	7.3	85.5
80-10-06	1320	417	10.5	0.	0.0	85.	70.0	22.90	6.8	85.2
80-11-10	1510	417	13.8	0.	0.0	98.	80.0	26.00	9.0	102.0
80-12-01	1540	417	12.3	0.	0.0	109.	89.0	28.80	9.7	111.9
81-01-12	1445	417	12.0	0.	0.0	105.	86.0	28.00	9.4	108.6
81-02-09	1450	417	12.2	0.	0.0	107.	88.0	28.70	10.8	116.1
81-03-23	1230	417	12.0	0.	0.0	106.	87.0	28.20	10.0	111.6
81-04-21	1220	417	11.4	0.	0.0	99.	81.0	27.50	11.0	114.0
81-05-11	1230	417	10.5	0.	0.0	105.	86.0	28.10	7.1	99.4
81-06-15	1235	417	10.3	0.	0.0	85.	70.0	21.90	7.3	84.7
81-07-06	1230	417	10.0	0.	0.0	83.	68.0	20.20	5.3	72.3
81-08-10	1515	417	10.5	0.	0.0	79.	65.0	21.20	4.9	73.1
81-09-14	1220	417	10.6	0.	0.0	82.	67.0	22.40	6.0	80.6
81-10-05	1235	417	11.6	0.	0.0	89.	73.0	24.10	8.0	93.1
81-11-02	1230	417	11.3	0.	0.0	90.	74.0	23.70	8.1	92.5
81-12-07	1300	417	12.1	0.	0.0	105.	86.0	28.80	9.1	109.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-07	1415	417	120.	1.1	.3	.5	.06	20.	4.5	--
80-02-04	1645	417	115.	1.0	.3	.4	.06	20.	4.3	--
80-04-21	1450	417	94.	.9	.4	.5	.06	13.	4.1	--
80-05-12	1400	417	83.	.5	.3	.3	L.05	11.	2.8	--
80-06-16	1310	417	79.	.4	1.0	.2	.05	7.	2.3	--
80-07-28	1530	417	76.	.3	.2	.2	L.05	8.	1.7	--
80-08-18	1500	417	75.	.4	.2	.2	L.05	8.	2.2	--
80-09-15	1350	417	87.	.7	.2	.2	.07	13.	3.0	--
80-10-06	1320	417	89.	.8	.3	.3	.09	13.	2.7	--
80-11-10	1510	417	103.	1.0	.2	.3	.09	16.	2.7	--
80-12-01	1540	417	118.	1.0	.3	.4	.06	20.	4.3	--
81-01-12	1445	417	114.	.6	.3	.4	.08	19.	4.2	--
81-02-09	1450	417	118.	9	.2	.5	.09	20.	4.2	--
81-03-23	1230	417	116.	1.0	.3	.3	.09	20.	4.0	--
81-04-21	1220	417	114.	.9	.4	.4	.10	21.	4.1	--
81-05-11	1230	417	109.	1.0	.3	.4	L.05	16.	4.8	--
81-06-15	1235	417	86.	.6	.2	.3	L.05	11.	3.1	--
81-07-06	1230	417	76.	.4	.2	.2	L.05	7.	2.2	--
81-08-10	1515	417	75.	.3	.1	.2	L.05	7.	1.8	--
81-09-14	1220	417	82.	.5	.2	.2	.07	10.	2.2	--
81-10-05	1235	417	95.	.6	.3	.3	.09	15.	3.2	--
81-11-02	1230	417	98.	.9	.3	.5	.06	16.	3.6	--
81-12-07	1300	417	117.	.8	.3	.3	.05	22.	3.9	--

STATION - 00AL07AA0015 LAT. 52D 38M 51S LONG. 117D 52M 50S
ATHABASCA RIVER AT HWY 93A. ATHABASCA FALLS. JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-07	1415	417	L.003	L.003 03L	00.000	.14 10L	--	16	L.01	C.17
80-02-04	1645	417	007	L.003 03L	0.004	11 10L	--	.11	.02	13
80-04-21	1450	417	010	.010	0.000	.07	.13	.16	L.01	C.17
80-05-12	1400	417	.010	L.003	0.007	08	.10	.11	L.01	C.12
80-06-16	1310	417	.210	005	.205	.07	.08	.07	.25	32
80-07-28	1530	417	--	L.003 03L	--	.05 10L	--	.05	.11	16
80-08-18	1500	417	026	L.003	0.023	.04	.05	.09	.06	.15
80-09-15	1350	417	003	--	--	.05	.06	.07	.01	08
80-10-06	1320	417	012	L.003	0.009	.06	.07	08	03	11
80-11-10	1510	417	004	L.003	0.001	09	.09	.13	58	71
80-12-01	1540	417	L.003	L.003	00.000	11	11	13	L.01	C.14
81-01-12	1445	417	003	L.003	00.000	.11	12	11	02	.13
81-02-09	1450	417	004	L.003	0.001	12	13	13	L.01	C.14
81-03-23	1230	417	005	L.003	0.002	.09	10	11	L.01	0.12
81-04-21	1220	417	L.003	L.003	00.000	.06	11	15	L.01	0.16
81-05-11	1230	417	033	L.003	0.030	.08	11	11	L.01	0.12
81-06-15	1235	417	.016	.003	013	.06	08	09	02	11
81-07-06	1230	417	074	.006	.068	.06	07	.09	08	17
81-08-10	1515	417	070	L.003	0.067	.04	05	.07	L.01	0.08
81-09-14	1220	417	013	.003	.010	.05	10	07	L.01	C.08
81-10-05	1235	417	004	.003	001	.06	07	07	L.01	0.08
81-11-02	1230	417	006	L.003	0.003	.08	08	13	L.01	0.14
81-12-07	1300	417	L.003 06R	L.003 03V	00.000	.08 10V	.10 51V	10 51R	L.01 02R	0.11

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-07	1415	417	--	--	32.0	1.0	10	1.1	--	--
80-02-04	1645	417	--	--	17.0	1.0	.15	1.2	--	--
80-04-21	1450	417	--	--	--	3.0 04D	--	--	--	--
80-05-12	1400	417	--	--	--	1.0 04D	--	--	--	--
80-06-16	1310	417	--	--	--	1.0 04D	--	--	--	--
80-07-28	1530	417	--	--	--	L1.0	7.90	08.9	--	--
80-08-18	1500	417	--	--	--	L1.0 04D	3.70	04.7	--	--
80-09-15	1350	417	--	--	--	L1.0 04D	33	01.3	--	--
80-10-06	1320	417	-	--	--	L1.0 04D	1.60	02.6	--	--
80-11-10	1510	417	--	--	--	L1.0 04D	17	01.2	--	--
80-12-01	1540	417	--	--	--	L1.0 04D	05	01.1	--	--
81-01-12	1445	417	--	--	--	L1.0 04D	13	01.1	--	--
81-02-09	1450	417	--	--	--	L1.0 04D	19	01.2	--	--
81-03-23	1230	417	--	--	--	4	20	6	--	--
81-04-21	1220	417	--	--	--	--	28	--	--	--
81-05-11	1230	417	L.1	--	--	1.9	.30	2.2	--	--
81-06-15	1235	417	L.1	--	--	1.0	.96	2.0	--	--
81-07-06	1230	417	L.1	--	--	.5	10.00	10.5	--	--
81-08-10	1515	417	L.1	--	--	.6	8.80	9.4	--	--
81-09-14	1220	417	L.1	--	--	1.0	1.20	2.2	--	--
81-10-05	1235	417	L.1	--	--	4	.18	.6	--	--
81-11-02	1230	417	L.1	--	--	1.3	.15	1.5	--	--
81-12-07	1300	417	L.1 06W	--	--	4 04R	.07 02R	.5	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07AA0015 — ATHABASCA RIVER AT HWY 93A. ATHABASCA FALLS. — LAT. 52D 39M 51S LONG. 117D 52M 50S — JASPER NATIONAL PARK. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-07	1415	417	--	--	--	--	--	--	--	L.02
80-02-04	1645	417	--	--	--	--	--	--	--	L.02
80-04-21	1450	417	.04	L.0005 04L	L.0005 02L	--	L.01	--	L.04	L.02
80-05-12	1400	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-16	1310	417	L.02	L.0005	L.0005	--	L.01	--	L.04	.03
80-07-28	1530	417	L.02	L.0005 04L	L.0005 02L	--	--	--	--	.02
80-08-18	1500	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-15	1350	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-06	1320	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-10	1510	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-01	1540	417	.03	L.0005	L.0005	--	.02	--	L.04	L.02
81-01-12	1445	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-08	1450	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-23	1230	417	.04	L.0005	L.0005	--	L.01	--	L.04 04L	L.02
81-04-21	1220	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-11	1230	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-06-15	1235	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-06	1230	417	.02	L.0005	L.0005	--	L.01	--	.06	L.02
81-08-10	1515	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-14	1220	417	.05 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-05	1235	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-02	1230	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-07	1300	417	.03 05V	L.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11M

FOOTNOTE: L - LESS THAN DETECTION LIMIT — G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION — G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07AA0023 LAT. 53D 2M 30S LONG. 118D 5M 13S
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-07	1730	417	.2	18.0	220.	276.	8.5	8.1	5.2	4.5
80-02-04	1615	417	1.0	17.9	--	271.	8.3	7.9	--	7.5
80-03-04	1315	417	.5	22.2	250.	294.	8.4	8.0	1.4	2.4
80-04-21	1855	417	5.0	20.3	188.	209.	8.3	8.0	--	.9
80-05-12	1530	417	8.0	17.7	135.	146.	8.3	8.0	--	6.2
80-06-16	1445	417	11.5	18.6	132.	148.	7.6	8.2	150.0	180.0
80-07-28	1630	417	13.0	21.7	--	145.	8.2	8.2	140.0	120.0
80-08-18	1710	417	10.0	17.1	139.	143.	8.0	8.1	20.0	46.0
80-09-15	1535	417	7.0	17.7	165.	186.	8.0	8.3	4.2	4.3
80-10-06	1600	417	9.5	19.3	164.	185.	8.4	8.4	4.4	4.3
80-11-10	1645	417	2.5	19.2	192.	224.	8.4	8.2	1.0	1.7
80-12-01	1715	417	0.0	19.4	237.	268.	7.8	8.2	2.6	2.9
81-01-12	1640	417	0.0	20.1	218.	253.	8.2	8.0	.9	2.1
81-02-09	1635	417	0.0	20.2	249.	294.	8.4	8.1	1.0	2.5
81-03-23	1410	417	2.0	18.6	249.	261.	8.6	8.4	2.0	2.6
81-04-21	1410	417	6.0	20.8	240.	247.	8.3	8.2	5.5	5.3
81-05-11	1400	417	7.5	18.4	204.	219.	8.1	8.1	5.0	3.7
81-06-15	1435	417	8.5	17.1	156.	160.	8.2	8.1	6.2	4.8
81-07-06	1345	417	10.0	16.7	137.	141.	8.1	8.3	120.0	73.0
81-08-11	0725	417	11.0	24.6	--	141.	8.0	8.2	198.0	76.0
81-09-14	1500	417	9.0	23.2	164.	170.	8.1	8.2	--	16.0
81-10-05	1430	417	4.5	23.3	190.	199.	8.1	8.2	3.4	2.7
81-11-02	1400	417	5.0	15.8	187.	192.	8.2	8.2	5.4	3.9
81-12-07	1530	417	0.0	22.3	224.	228.	8.2	8.1	2.3	1.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-07	1730	417	5.	--	11.	--	--	6.	L2.	L2.
80-02-04	1615	417	5.	--	5. 01R	--	--	L2. 02U	L2. 12U	L2. 03U
80-03-04	1315	417	5.	--	3.	--	--	L2.	L2.	L2.
80-04-21	1855	417	10.	--	13.	--	.001	3.	L2.	2.
80-05-12	1530	417	10.	--	12.	--	L.001	11.	L2.	L2.
80-06-16	1445	417	100.	--	394.	--	L.001	--	--	--
80-07-28	1630	417	40.	--	125.	--	--	--	--	--
80-08-18	1710	417	40.	--	37.	--	L.001	140.	26.	52.
80-09-15	1535	417	10.	--	6.	--	L.001	14.	L2.	4.
80-10-06	1600	417	20.	--	9.	--	.004	L2.	L2.	15.
80-11-10	1645	417	20.	--	3.	--	.004	3.	L2.	L2.
80-12-01	1715	417	20.	--	11.	--	L.001	8.	L2.	8.
81-01-12	1640	417	5.	--	8.	--	L.001	8.	L2.	L2.
81-02-09	1635	417	15.	--	3.	--	L.001	7.	5.	L2.
81-03-23	1410	417	--	5.	4.	--	L.001	L1.	L1.	L1.
81-04-21	1410	417	--	10.	11. 01R	--	.002	L1. 02U	L1. 12U	L1. 03U
81-05-11	1400	417	--	10.	9.	--	.001	3.	L1.	2.
81-06-15	1435	417	--	10.	7.	--	L.001	70.	3.	4.
81-07-06	1345	417	--	5.	48.	--	L.001	42.	10.	8.
81-08-11	0725	417	--	5.	107.	--	.005	80.	30.	25.
81-09-14	1500	417	--	20.	12.	--	L.001	10.	L2.	L2.
81-10-05	1430	417	--	5.	5.	--	L.001	1.	L1.	1.
81-11-02	1400	417	--	20.	5.	--	.009	4.	L1.	3.
81-12-07	1530	417	--	5.	1.	--	.004	14.	L1.	L1.

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07AA0023 LAT. 53D 2M 30S LONG. 118D 5M 13S
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101H OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-07	1730	417	12.0	0.	0.0	122.	100.0 06L	34.30	11.6	133.4
80-02-04	1615	417	12.4	0.	0.0	118.	97.0 06L	32.00	14.7	140.4
80-03-04	1315	417	12.5	0.	0.0	118.	97.0 06L	33.00	12.4	133.5
80-04-21	1655	417	12.8	0.	0.0	99.	81.0	26.40	8.5	100.9
80-05-12	1530	417	10.3	0.	0.0	73.	60.0	20.00	6.2	75.5
80-06-16	1445	417	10.7	0.	0.0	81.	66.0	19.80	5.4	71.7
80-07-28	1630	417	10.7	0.	0.0	73.	60.0	20.80	5.0	72.5
80-08-18	1710	417	10.6	0.	0.0	73.	60.0	22.00	5.6	78.0
80-09-15	1535	417	12.0	0.	0.0	83.	68.0	22.40	7.5	86.8
80-10-06	1600	417	11.6	0.	0.0	83.	68.0	22.80	6.8	84.9
80-11-10	1645	417	14.2	0.	0.0	96.	79.0	26.80	9.2	104.8
80-12-01	1715	417	12.1	0.	0.0	118.	97.0	32.70	10.7	125.7
81-01-12	1640	417	12.2	0.	0.0	112.	92.0	30.30	9.9	116.4
81-02-09	1635	417	13.1	0.	0.0	132.	108.0	35.50	13.0	142.2
81-03-23	1410	417	14.0	0.	0.0	117.	96.0	32.30	10.6	124.3
81-04-21	1410	417	11.9	0.	0.0	109.	89.0	31.00	11.0	122.7
81-05-11	1400	417	11.0	0.	0.0	106.	87.0	29.60	8.8	110.1
81-06-15	1435	417	10.7	0.	0.0	74.	61.0	20.50	6.3	77.1
81-07-06	1345	417	9.9	0.	0.0	68.	56.0	20.20	5.6	73.5
81-08-11	0725	417	9.9	0.	0.0	73.	60.0	21.80	5.3	76.3
81-09-14	1500	417	10.5	0.	0.0	81.	66.0	22.80	6.2	82.5
81-10-05	1430	417	11.5	0.	0.0	90.	74.0	24.90	8.1	95.5
81-11-02	1400	417	11.9	0.	0.0	83.	68.0	23.90	8.6	95.1
81-12-07	1530	417	12.6	0.	0.0	111.	91.0	31.40	10.1	120.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-07	1730	417	142	1.9	.4	1.0	.08	28.	4.4	--
80-02-04	1615	417	140.	1.8	.4	1.1	.17	27.	4.4	--
80-03-04	1315	417	139.	2.1	.5	1.2	.10	27.	4.8	--
80-04-21	1655	417	109.	1.4	.5	.8	.06	19.	3.6	--
80-05-12	1530	417	77.	.5	.3	.4	L.05	12.	1.2	--
80-06-16	1445	417	77.	.4	.2	.4	L.05	9.	2.2	--
80-07-28	1630	417	76.	.5	.3	.3	.06	11.	2.0	--
80-08-18	1710	417	78.	.6	.2	.4	L.05	11.	2.3	--
80-09-15	1535	417	91.	.9	.2	.4	.06	16.	3.0	--
80-10-06	1600	417	91.	1.1	.3	.3	.07	16.	2.9	--
80-11-10	1645	417	110.	1.4	.3	.7	.10	22.	2.6	--
80-12-01	1715	417	135.	1.6	.5	.8	.07	26.	4.6	--
81-01-12	1640	417	125.	1.4	.5	.9	.10	23.	4.2	--
81-02-09	1635	417	147.	1.6	.4	1.0	.07	26.	4.6	--
81-03-23	1410	417	134.	1.7	.4	.9	.11	28.	4.1	--
81-04-21	1410	417	126.	1.2	.4	.8	.11	24.	3.7	--
81-05-11	1400	417	117.	1.4	.4	.6	.06	20.	4.2	--
81-06-15	1435	417	81.	.6	.2	.3	L.05	13.	3.0	--
81-07-06	1345	417	72.	.5	.2	.3	L.05	9.	2.4	--
81-08-11	0725	417	76.	.3	.2	.2	L.05	10.	2.1	--
81-09-14	1500	417	86.	.6	.2	.3	.06	14.	2.4	--
81-10-05	1430	417	101.	1.0	.3	.5	.08	19.	3.0	--
81-11-02	1400	417	99.	1.3	.3	.7	.06	20.	3.0	--
81-12-07	1530	417	128.	1.3	.4	.8	.06	26.	3.8	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07AA0023
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA
LAT. 53D 2M 30S LONG. 118D 3M 13S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-07	1730	417	.023	.012 03L	.011	.14 10L	--	.19	.08	.27
80-02-04	1615	417	.009 06R	.008 03R	.001	.12 10R	--	.15 51R	.02 02R	.17
80-03-04	1315	417	.011	.007 03L	.004	.18 10L	--	.20	L.01	Q.21
80-04-21	1655	417	.010	--	--	.08	.12	.14	.07	.21
80-05-12	1530	417	.010	L.003	Q.007	.05	.10	.12	7.10	7.22
80-06-16	1445	417	.025	L.003	Q.022	.05	.08	.07	.10	.17
80-07-28	1630	417	--	L.003 03L	--	.05 10L	--	.05	.08	.13
80-08-18	1710	417	.030	.003	.027	.04	.07	.12	.08	.20
80-09-15	1535	417	.004	L.003	Q.001	.03	.04	.07	.01	.08
80-10-06	1800	417	.005	L.003	Q.002	.03	.06	.04	.05	.09
80-11-10	1645	417	.004	L.003	Q.001	.07	.08	.11	.07	.18
80-12-01	1715	417	.007	.003	.004	.11	.12	.13	.04	.17
81-01-12	1640	417	.006	.006	0.000	.10	.12	.13	.02	.15
81-02-09	1635	417	.012	.004	.008	.12	.17	.16	.05	.21
81-03-23	1410	417	.004	L.003	Q.001	.04	.07	.07	L.01	Q.08
81-04-21	1410	417	.009 06R	L.003 03V	Q.006	.05 10V	.10 51V	.10 51R	.01 02R	.11
81-05-11	1400	417	.005	.005	0.000	.06	.10	.10	.03	.13
81-06-15	1435	417	.008	.004	.004	.04	.07	.07	.02	.09
81-07-06	1345	417	.048	.004	.044	.05	.07	.07	.05	.12
81-08-11	0725	417	.060	L.003	Q.057	.04	.05	.05	L.01	Q.06
81-09-14	1500	417	.013	L.003	Q.010	.05	.06	.06	L.01	Q.07
81-10-05	1430	417	.005	.003	.002	.05	.07	.07	L.01	Q.08
81-11-02	1400	417	.010	.003	.007	.05	.09	.09	L.01	Q.10
81-12-07	1530	417	.003	L.003	Q0.000	.09	.11	.11	L.01	Q.12

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-07	1730	417	--	--	25.0	1.0	.74	1.7	--	--
80-02-04	1615	417	--	--	20.0 52R	1.0 04R	.15 02R	1.2	--	--
80-03-04	1315	417	--	--	18.0	L1.0	.01	Q1.0	--	--
80-04-21	1655	417	--	--	--	2.0 04D	--	--	--	--
80-05-12	1530	417	--	--	--	2.0 04D	--	--	--	--
80-06-16	1445	417	--	--	--	1.0 04D	2.20	3.2	--	--
80-07-28	1630	417	--	--	--	L1.0	7.80	Q8.8	--	--
80-08-18	1710	417	--	--	--	L1.0 04D	2.60	Q3.6	--	--
80-09-15	1535	417	--	--	--	L1.0 04D	.28	Q1.3	--	--
80-10-06	1800	417	--	--	15.0 52D	L1.0 04D	.38	Q1.4	--	--
80-11-10	1645	417	--	--	--	L1.0 04D	.29	Q1.3	--	--
80-12-01	1715	417	--	--	--	L1.0 04D	.40	Q1.4	--	--
81-01-12	1640	417	--	--	--	L1.0 04D	.23	Q1.2	--	--
81-02-09	1635	417	--	--	--	L1.0 04D	.42	Q1.4	--	--
81-03-23	1410	417	--	--	--	.5	.41	.9	--	--
81-04-21	1410	417	--	--	--	--	.32 02R	--	--	--
81-05-11	1400	417	L.1	--	--	1.9	.32	2.2	--	--
81-06-15	1435	417	L.1	--	--	1.2	.32	1.5	--	--
81-07-06	1345	417	L.1	--	--	.7	3.80	4.5	--	--
81-08-11	0725	417	L.1	--	--	.4	5.00	5.4	--	--
81-09-14	1500	417	L.1	--	--	.5	.74	1.2	--	--
81-10-05	1430	417	L.1	--	--	.4	.20	.6	--	--
81-11-02	1400	417	L.1	--	--	1.2	.38	1.6	--	--
81-12-07	1530	417	L.1	--	--	.5	.15	.7	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07AA0023 LAT. 53D 2M 30S LONG. 118D 5M 13S
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-07	1730	417	.02	L.0005 04L	L.0005 02L	.02	--	.24	--	L.02
80-02-04	1615	417	L.02	L.0005 04L	L.0005 02L	L.01 04H	--	.05 04H	--	L.02 11H
80-03-04	1315	417	.04	L.0005 04L	L.0005 02L	L.01	--	.13	--	.02
80-04-21	1855	417	.03	L.0005 04L	L.0005 02L	--	L.01	--	.04	L.02
80-05-12	1530	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-16	1445	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-07-28	1630	417	L.02	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-08-18	1710	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-15	1535	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-06	1600	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-10	1545	417	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
80-12-01	1715	417	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-01-12	1640	417	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-09	1635	417	.06	L.0005	L.0005	--	L.01	--	L.04	L.02
81-03-23	1410	417	L.02	L.0005	L.0005	--	L.01	--	L.04	.02
81-04-21	1410	417	.03 05R	L.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11H
81-05-11	1400	417	L.02	.0006	.0017	--	L.01	--	L.04	L.02
81-06-15	1435	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-06	1345	417	.02	L.0005	.0008	--	L.01	--	L.04	L.02
81-08-11	0725	417	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-14	1500	417	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-05	1430	417	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-02	1400	417	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-12-07	1530	417	.03 05D	L.0005	L.0005	--	L.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-07	1730	417	L.001	--	--	L.002	--	--	--	--
80-02-04	1615	417	L.001 02H	--	--	.002 02H	--	--	--	--
80-03-04	1315	417	L.001	--	--	L.002	--	--	--	--
80-04-21	1855	417	--	.003	--	--	.003	--	L.002	--
80-05-12	1530	417	--	.001	--	--	.003	--	.010	--
80-06-16	1445	417	--	.007	--	--	.003	--	.015	--
80-07-28	1630	417	--	L.001	--	--	.004	--	.007	--
80-08-18	1710	417	--	L.001	--	--	L.002	--	.002	--
80-09-15	1535	417	--	L.001	--	--	L.002	--	L.002	--
80-10-06	1600	417	--	L.001	--	--	L.002	--	.003	--
80-11-10	1545	417	--	.002	--	--	L.002	--	.004	--
80-12-01	1715	417	--	.003	--	--	L.002	--	L.002	--
81-01-12	1640	417	--	.002	--	--	.007	--	.012	--
81-02-09	1635	417	--	L.001	--	--	.003	--	.006	--
81-03-23	1410	417	--	L.001	--	--	.002	--	L.002	--
81-04-21	1410	417	--	L.001 20H	--	--	L.002 20H	--	--	--
81-05-11	1400	417	--	L.001	--	--	.004	--	--	--
81-06-15	1435	417	--	.002	--	--	L.002	--	--	--
81-07-06	1345	417	--	L.001	--	--	L.002	--	.004	--
81-08-11	0725	417	--	L.001	--	--	L.002	--	.002	--
81-09-14	1500	417	--	L.001	--	--	.002	--	L.002	--
81-10-05	1430	417	--	L.001	--	--	L.002	--	L.002	--
81-11-02	1400	417	--	L.001	--	--	L.002	--	L.002	--
81-12-07	1530	417	--	L.001	--	--	L.002	--	.002	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07AA0023
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA
LAT. 53D 2M 30S LONG. 118D 5M 13S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-07	1730	417	.001	--	.001	--	--	--	L.001	--
80-02-04	1615	417	.001 05W	--	.006 05W	--	--	--	L.001 02W	--
80-03-04	1315	417	.001	--	.002	--	--	--	L.001	--
80-04-21	1855	417	--	.005	--	.003	--	--	--	L.001
80-05-12	1530	417	--	.001	--	.003	--	--	--	.001
80-06-16	1445	417	--	.007	--	.018	--	--	--	L.001
80-07-28	1830	417	--	.003	--	.012	--	--	--	L.001
80-08-18	1710	417	--	.001	--	.002	--	--	--	L.001
80-09-15	1535	417	--	.001	--	.005	--	--	--	L.001
80-10-06	1800	417	--	.001	--	.003	--	--	--	L.001
80-11-10	1845	417	--	.004	--	.002	--	--	--	L.001
80-12-01	1715	417	--	L.001	--	.002	--	--	--	L.001
81-01-12	1840	417	--	.003	--	.004	--	--	--	.001
81-02-09	1835	417	--	.003	--	.007	--	--	--	L.001
81-03-23	1410	417	--	.002	--	.003	--	--	--	L.001
81-04-21	1410	417	--	.005 20W	--	--	--	--	--	L.001 20W
81-05-11	1400	417	--	.004	--	--	--	--	--	.004
81-06-15	1435	417	--	L.001	--	.001	--	--	--	L.001
81-07-06	1345	417	--	.001	--	.011	--	--	--	L.001
81-08-11	0725	417	--	L.001	--	.004	--	--	--	L.001
81-09-14	1500	417	--	L.001	--	.006	--	--	--	L.001
81-10-05	1430	417	--	.001	--	.003	--	--	--	L.001
81-11-02	1400	417	--	.002	--	.002	--	--	--	L.001
81-12-07	1530	417	--	L.001	--	L.001	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-07	1730	417	.05	--	L.004	--	L.001	.002	--	--
80-02-04	1615	417	.05 01W	--	L.004 02W	--	L.001 04W	L.001 35W	--	--
80-03-04	1315	417	.05	--	L.004	--	.001	L.001	--	--
80-04-21	1855	417	--	.06	--	L.004	.001	.001	--	--
80-05-12	1530	417	--	L.05	--	L.004	L.001	.003	--	--
80-06-16	1445	417	--	.08	--	.005	.002	L.001	--	--
80-07-28	1830	417	--	L.05	--	L.004	.001	.004	--	--
80-08-18	1710	417	--	L.05	--	L.004	L.001	L.001	--	--
80-09-15	1535	417	--	L.05	--	L.004	.001	L.001	--	--
80-10-06	1800	417	--	L.05	--	L.004	L.001	L.001	--	--
80-11-10	1845	417	--	L.05	--	L.004	.002	L.001	--	--
80-12-01	1715	417	--	L.05	--	L.004	.004	.001	--	--
81-01-12	1840	417	--	L.05	--	L.004	.006	L.001	--	--
81-02-09	1835	417	--	.07	--	L.004	.004	L.001	--	--
81-03-23	1410	417	--	L.05	--	L.004	.004	L.001	--	--
81-04-21	1410	417	--	.08 20W	--	L.004 20W	.002	L.001 35W	--	--
81-05-11	1400	417	--	L.05	--	.007	.002	L.001	--	--
81-06-15	1435	417	--	.07	--	.004	L.001	L.001	--	--
81-07-06	1345	417	--	.05	--	L.004	.002	L.001	--	--
81-08-11	0725	417	--	.05	--	.004	.004	L.001	--	--
81-09-14	1500	417	--	L.05	--	L.004	L.001	.005	--	--
81-10-05	1430	417	--	.05	--	L.004	L.001	L.001	--	--
81-11-02	1400	417	--	L.05	--	L.004	.001	.001	--	--
81-12-07	1530	417	--	.06	--	L.004	L.001	L.001	--	--

STATION - 00AL07AA0023 LAT. 53D 2M 30S LONG. 118D 5M 13S
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-07	1730	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-02-04	1815	417	--	--	L.001 30R	L.001 11R	L.001 75R	L.001 70R	L.002 10R	L.001 20R
80-03-04	1315	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-04-21	1855	417	--	--	L.001	L.001	.002	L.001	L.002	L.001
80-05-12	1530	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-06-16	1445	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-07-28	1830	417	--	--	L.001	L.001	.010	L.001	L.002	L.001
80-08-18	1710	417	--	--	L.001	L.001	.007	L.001	L.002	L.001
80-09-15	1535	417	--	--	L.001	L.001	.010	L.001	L.002	L.001
80-10-06	1600	417	--	--	L.001	L.001	.002	L.001	L.002	L.001
80-11-10	1845	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-01-12	1840	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-02-09	1835	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-03-23	1410	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-04-21	1410	417	--	--	L.001 30R	L.001 11R	.001 75R	L.001 70R	L.002 10R	L.001 20R
81-05-11	1400	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-06-15	1435	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-07-06	1345	417	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-08-11	0725	417	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-09-14	1500	417	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-10-05	1430	417	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-11-02	1400	417	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-12-07	1530	417	--	--	L.001	L.001	L.001	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-07	1730	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-02-04	1815	417	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
80-03-04	1315	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-04-21	1855	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-12	1530	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-06-16	1445	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-07-28	1830	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-18	1710	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-09-15	1535	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-06	1600	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-11-10	1845	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-12	1840	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-02-09	1835	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-03-23	1410	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-04-21	1410	417	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
81-05-11	1400	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-06-15	1435	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-07-06	1345	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-11	0725	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-09-14	1500	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-05	1430	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-11-02	1400	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-12-07	1530	417	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

STATION - 00AL07AA0023 LAT. 53D 2M 30S LONG. 118D 5M 13S
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-. (CIS) CHLORDANE UG/L	18065L GAMMA- (TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-07	1730	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-02-04	1615	417	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W	L.004 55W
80-03-04	1315	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-04-21	1855	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-12	1530	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-06-16	1445	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-07-28	1830	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-18	1710	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-09-15	1535	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-06	1800	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-11-10	1845	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-12-01	1715	417	--	--	--	--	L.2	L.004	L.009	L.004
81-01-12	1840	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-02-09	1835	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-03-23	1410	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-04-21	1410	417	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W	L.004 55W
81-05-11	1400	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-06-15	1435	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-07-06	1345	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-11	0725	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-09-14	1500	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-05	1430	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-11-02	1400	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-12-07	1530	417	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-07	1730	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-02-04	1815	417	L.002 10W	L.004 40W	L.2 01W	--	L.002 60R	L.002 61R	L.005 62R	L.020 64R
80-03-04	1315	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-04-21	1855	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-12	1530	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-06-16	1445	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-07-28	1630	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-18	1710	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-09-15	1535	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-10-06	1800	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-11-10	1845	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-12-01	1715	417	L.002	L.004	L.2	--	--	--	--	--
81-01-12	1840	417	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-02-09	1835	417	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-03-23	1410	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-04-21	1410	417	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	--	L.005 62R	L.002 64R
81-05-11	1400	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-06-15	1435	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-06	1345	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-11	0725	417	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-09-14	1500	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-10-05	1430	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-11-02	1400	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-12-07	1530	417	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07BE0001
ATHABASCA RIVER AT ATHABASCA, ALBERTA

LAT. 54D 43M 18S LONG. 113D 17M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-15	1045	479	0.0	17.4	330.	397.	7.5	7.4	1.2	2.0
80-02-12	1100	479	0.0	20.8	385.	417.	7.8	7.5	.9	6.8
80-03-11	1130	479	.5	21.3	340.	400.	7.6	7.6	1.6	1.7
80-04-08	1130	479	1.5	18.4	310.	388.	8.0	7.8	--	6.2
80-05-21	0830	479	10.0	18.0	230.	257.	8.2	8.3	8.6	14.5
80-06-03	0855	479	13.5	20.3	200.	230.	--	8.0	200.0	130.0
80-07-08	0815	479	17.0	24.2	220.	251.	8.2	8.1	58.0	68.0
80-08-20	0830	479	15.0	19.2	--	269.	8.4	8.1	20.0	13.0
80-09-09	0840	479	11.0	19.6	321.	289.	8.3	8.0	11.0	7.2
80-10-07	1030	479	11.0	18.9	240.	275.	8.3	8.1	13.0	7.5
80-11-04	1015	479	2.0	20.0	290.	336.	8.3	8.3	7.0	4.6
80-12-02	1110	479	0.0	19.5	400.	479.	8.4	8.2	8.0	6.2
81-01-13	1110	479	0.0	20.6	309.	392.	7.9	7.8	3.0	2.7
81-02-10	1110	479	1.0	20.7	330.	407.	8.1	7.7	4.0	2.5
81-03-03	1100	479	0.0	22.3	332.	419.	7.9	7.7	4.0	3.8
81-04-15	0700	479	1.0	21.0	242.	324.	8.2	7.9	--	17.0
81-05-20	0830	479	13.0	20.5	229.	276.	8.3	8.0	53.0	28.0
81-06-23	0900	479	14.0	21.9	--	238.	8.1	8.2	48.0	19.0
81-07-14	0845	479	18.0	19.1	220.	224.	8.1	8.3	28.0	52.0
81-08-25	0845	479	19.5	20.3	--	243.	8.1	8.3	--	55.0
81-09-09	0850	479	14.0	23.0	235.	268.	8.1	8.2	38.0	17.5
81-10-06	0900	479	7.0	23.4	297.	314.	8.0	8.3	8.0	3.1
81-11-03	0815	479	--	17.1	--	353.	8.5	8.2	3.0	5.2
81-12-08	0815	479	0.0	22.2	422.	411.	8.2	8.0	--	3.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-15	1045	479	20.	--	L1.	--	--	15.	3.	L2.
80-02-12	1100	479	20.	--	3.	--	--	11.	L2.	L2.
80-03-11	1130	479	30.	--	1.	--	--	25.	L2.	L2.
80-04-08	1130	479	30.	--	10.	--	L.001	L2.	L2.	22.
80-05-21	0830	479	20.	--	22.	--	.001	L2.	L2.	L2.
80-06-03	0855	479	200.	--	341. 01R	--	.002 17T	--	23. 12U	69. 03U
80-07-08	0815	479	120.	--	157.	--	L.001	--	13.	80.
80-08-20	0830	479	40.	--	31.	--	.002	L2.	L2.	2.
80-09-09	0840	479	40.	--	15.	--	.003	G80.	G80.	G80.
80-10-07	1030	479	50.	--	16.	--	.003	2.	2.	L2.
80-11-04	1015	479	40.	--	10.	--	.003	--	--	L2.
80-12-02	1110	479	50.	--	5.	--	L.001	--	--	--
81-01-13	1110	479	20.	--	2.	--	L.001	42.	4.	2.
81-02-10	1110	479	20.	--	4.	--	L.001	--	--	--
81-03-03	1100	479	30.	--	4.	--	L.001	100.	2.	L2.
81-04-15	0700	479	--	40.	29.	--	.004	8.	L2.	120.
81-05-20	0830	479	--	30.	51.	--	.010	L2.	L2.	L2.
81-06-23	0900	479	--	30.	38.	--	.004	--	2.	54.
81-07-14	0845	479	--	10.	42.	--	.004	10.	8.	98.
81-08-25	0845	479	--	20.	54. 01R	--	.003 17T	L10. 02U	L10. 12U	200. 03U
81-09-09	0850	479	--	20.	13.	--	L.001	L2.	L2.	10.
81-10-06	0900	479	--	10.	4.	--	L.001	4.	4.	6.
81-11-03	0815	479	--	20.	2.	--	L.001	--	--	--
81-12-08	0815	479	--	30.	2.	--	.002	L1.	L1.	L1.

STATION - 00AL07BE0001
ATHABASCA RIVER AT ATHABASCA, ALBERTA

LAT. 54D 43M 18S LONG. 113D 17M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101H OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-15	1045	479	10.9	0.	0.0	161.	132.0 06L	48.40	12.6	172.7
80-02-12	1100	479	10.4	0.	0.0	172.	141.0 06L	46.80	14.2	175.3
80-03-11	1130	479	10.4	0.	0.0	141.	116.0 06L	43.00	13.6	163.4
80-04-08	1130	479	11.1	0.	0.0	159.	130.0	40.10	11.5	147.5
80-05-21	0830	479	9.0	0.	0.0	117.	96.0	33.00	9.4	121.1
80-06-03	0855	479	8.8	0.	0.0	111.	91.0	29.50	7.5	104.5
80-07-08	0815	479	--	0.	0.0	124.	102.0	32.60	8.2	115.2
80-08-20	0830	479	9.4	0.	0.0	128.	105.0	36.00	9.2	127.8
80-09-09	0940	479	10.1	0.	0.0	140.	115.0	36.50	9.5	130.3
80-10-07	1030	479	9.6	0.	0.0	133.	109.0	35.00	8.9	124.0
80-11-04	1015	479	12.9	0.	0.0	162.	133.0	41.00	11.1	148.1
80-12-02	1110	479	13.5	0.	0.0	237.	194.0	59.90	15.8	214.8
81-01-13	1110	479	10.2	0.	0.0	184.	151.0	47.20	12.7	170.1
81-02-10	1110	479	11.0	0.	0.0	188.	154.0	50.10	13.8	181.9
81-03-03	1100	479	10.2	0.	0.0	184.	151.0	50.30	14.3	184.5
81-04-15	0700	479	13.1	0.	0.0	152.	125.0	38.50	11.0	141.4
81-05-20	0830	479	9.1	0.	0.0	139.	114.0	36.30	8.0	123.6
81-06-23	0800	479	9.0	0.	0.0	120.	98.0	32.30	8.1	114.0
81-07-14	0845	479	8.5	0.	0.0	112.	92.0	29.50	7.4	104.1
81-08-25	0845	479	8.8	0.	0.0	117.	96.0	30.70	7.6	108.0
81-09-08	0850	479	8.8	0.	0.0	123.	101.0	34.00	9.0	122.0
81-10-06	0800	479	11.1	0.	0.0	149.	122.0	40.70	11.3	148.2
81-11-03	0815	479	12.4	0.	0.0	169.	139.0	45.90	13.1	168.6
81-12-08	0815	479	13.5	0.	0.0	210.	172.0	54.90	14.3	196.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-15	1045	479	195.	11.0	1.9	4.5	.11	33.	4.8	--
80-02-12	1100	479	223.	12.0	2.0	4.7	.11	54.	4.4	--
80-03-11	1130	479	183.	11.0	2.2	5.0	.14	34.	4.2	--
80-04-08	1130	479	183.	11.0	2.4	4.9	.09	31.	4.1	--
80-05-21	0830	479	132.	5.1	.8	1.8	.10	22.	2.6	--
80-06-03	0855	479	119.	6.0	1.3	1.4	L.05	13.	5.8	--
80-07-08	0815	479	128.	4.3	.9	.9	.09	14.	6.0	--
80-08-20	0830	479	137.	4.9	.9	1.4	.05	17.	4.8	--
80-09-09	0940	479	148.	5.5	.9	1.4	.06	20.	4.9	--
80-10-07	1030	479	142.	5.2	1.0	1.0	.11	20.	5.0	--
80-11-04	1015	479	173.	7.5	1.2	2.3	.10	25.	4.8	--
80-12-02	1110	479	253.	14.0	2.0	4.3	.10	34.	6.1	--
81-01-13	1110	479	201.	9.2	1.6	3.0	.12	31.	5.7	--
81-02-10	1110	479	211.	11.0	1.6	3.8	.12	32.	5.8	--
81-03-03	1100	479	210.	9.0	1.7	4.7	.14	34.	5.3	--
81-04-15	0700	479	167.	10.0	3.2	3.3	.12	20.	5.5	--
81-05-20	0830	479	146.	6.6	1.4	1.4	.11	19.	5.0	--
81-06-23	0800	479	127.	5.1	.8	1.3	.06	15.	5.1	--
81-07-14	0845	479	119.	4.0	.9	1.1	L.05	17.	3.5	--
81-08-25	0845	479	123.	3.1	.8	1.4	.08	18.	3.3	--
81-09-08	0850	479	135.	4.2	.8	1.5	.08	22.	3.0	--
81-10-06	0800	479	164.	6.7	1.0	2.3	.11	26.	2.8	--
81-11-03	0815	479	189.	7.7	1.1	1.7	.10	32.	3.6	--
81-12-08	0815	479	233.	12.0	1.7	4.5	.10	38.	4.4	--

STATION - 00AL07BE0001 LAT. 54D 43M 18S LONG. 113D 17M 8S
ATHABASCA RIVER AT ATHABASCA, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-15	1045	479	.010	.006 03L	.004	.09 10L	--	.41	.04	.45
80-02-12	1100	479	.013	.003 03L	.010	.10 10L	--	.37	.05	.42
80-03-11	1130	479	.017	.003 03L	.014	.10 10L	--	.70	.17	.87
80-04-08	1130	479	.035	.014	.021	.13	.42	.43	.01	.44
80-05-21	0830	479	.021	.004	.017	L.01	.12	.12	.07	.19
80-06-03	0856	479	.270 06R	.005 03V	.265	.05 10V	.32	.32 51R	.58 02R	.90
80-07-08	0915	479	.150	.009	.141	.04	.26	.24	.33	.57
80-08-20	0830	479	.080	.004	.076	.01	.16	.17	.35	.52
80-09-09	0840	479	.013	.004	.009	L.01	.18	.17	.11	.28
80-10-07	1030	479	.021	.003	.018	L.01	.19	.20	.14	.34
80-11-04	1015	479	.004	.003	.001	.02	.22	.22	.10	.32
80-12-02	1110	479	.028	.010	.018	.07	.40	.35	.07	.42
81-01-13	1110	479	.015	.008	.007	.10	.31	.30	.06	.36
81-02-10	1110	479	.017	.007	.010	.28	--	.37	.08	.45
81-03-03	1100	479	.020	.013	.007	.18	.42	.39	.07	.46
81-04-15	0700	479	.062	.023	.039	.07	.48	.47	.20	.67
81-05-20	0830	479	.050	.004	.046	L.01	.26	.26	.16	.42
81-06-23	0800	479	.041	.003	.038	L.01	.17	.18	.13	.31
81-07-14	0845	479	.024	L.003	Q.021	.02	.14	.15	.11	.26
81-08-25	0845	479	.029 06R	.005 03V	.024	.02 10V	.10 51V	.09 51R	.08 02R	.17
81-09-08	0850	479	.028	L.003	Q.025	.01	.10	.11	.05	.16
81-10-06	0800	479	.009	L.003	Q.006	.01	.13	.14	L.01	Q.15
81-11-03	0915	479	.005	.003	.002	.01	.14	.14	L.01	Q.15
81-12-08	0915	479	.010	.003	.007	.04	.24	.23	.04	.27

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-15	1045	479	--	--	29.0	8.0	.22	8.2	.009	.02 05P
80-02-12	1100	479	.1	--	29.0	8.0	.27	8.3	--	--
80-03-11	1130	479	L.1	--	25.0	8.0	1.00	9.0	--	--
80-04-08	1130	479	L.1	--	22.0 52D	8.0 04D	--	--	--	--
80-05-21	0830	479	L.1	--	--	4.0 04D	--	--	--	--
80-06-03	0856	479	L.1 06H	--	--	10.0 04V	--	--	--	--
80-07-08	0915	479	L.1	--	--	8.0 04D	4.00	12.0	--	--
80-08-20	0830	479	L.1	--	--	7.0 04D	1.10	8.1	--	--
80-09-09	0840	479	L.1	--	--	6.0 04D	.82	6.8	--	--
80-10-07	1030	479	L.1	--	--	6.0 04D	.98	7.0	--	--
80-11-04	1015	479	L.1	--	--	7.0 04D	.54	7.5	--	--
80-12-02	1110	479	L.1	--	--	8.0 04D	.46	8.5	--	--
81-01-13	1110	479	L.1	--	--	6.0 04D	.30	6.3	--	--
81-02-10	1110	479	L.1	--	--	6.0 04D	.38	6.4	--	--
81-03-03	1100	479	L.1	--	--	7.0 04D	.42	7.4	--	--
81-04-15	0700	479	.1	--	--	--	1.10	--	--	--
81-05-20	0830	479	L.1	--	--	7.8	1.60	9.4	--	--
81-06-23	0800	479	L.1	--	--	6.2	1.30	7.5	--	--
81-07-14	0845	479	L.1	--	--	4.0	1.30	5.3	--	--
81-08-25	0845	479	L.1 06H	--	--	2.2 04R	.58 02R	2.8	--	--
81-09-08	0850	479	L.1	--	--	2.6	.65	3.3	--	--
81-10-06	0800	479	L.1	--	--	3.1	.27	3.4	--	--
81-11-03	0815	479	L.1	--	--	3.8	.19	4.0	--	--
81-12-08	0915	479	L.1	--	--	6.6	.22	6.8	--	--

STATION - 00AL07BE0001 LAT. 54D 43M 18S LONG. 113D 17M 8S
ATHABASCA RIVER AT ATHABASCA, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-15	1045	479	.05	L.0005 04L	L.0005 02L	L.01	--	.17	--	L.02
80-02-12	1100	479	--	--	--	--	--	--	--	L.02
80-03-11	1130	479	--	--	--	--	--	--	--	.02
80-04-08	1130	479	.07	L.0005	L.0005	--	.04	--	.10	L.02
80-05-21	0930	479	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-03	0856	479	.10 05R	L.0005 04V	L.0005 02V	--	L.01 04T	--	.05 04T	.04 11H
80-07-08	0915	479	.10	.0005	L.0005	--	L.01	--	.06	L.02
80-08-20	0930	479	.07	L.0005	L.0005	--	L.01	--	.05	L.02
80-09-09	0940	479	.07	L.0005	L.0005	--	L.01	--	.09	L.02
80-10-07	1030	479	.06	L.0005	L.0005	--	L.01	--	.08	L.02
80-11-04	1015	479	.07	L.0005	L.0005	--	L.01	--	.12	L.02
80-12-02	1110	479	.08	.0008	L.0005	--	.02	--	.11	L.02
81-01-13	1110	479	.08	L.0005	L.0005	--	L.01	--	.07	L.02
81-02-10	1110	479	.08	L.0005	L.0005	--	L.01	--	.07	L.02
81-03-03	1100	479	.07	L.0005	L.0005	--	L.01	--	.07	L.02
81-04-15	0700	479	.1[illegible]	.0005	.0007	--	.01	--	.15	L.02
81-05-20	0830	479	.07	L.0005	.0020	--	L.01	--	.09	L.02
81-06-23	0900	479	.06	L.0005	L.0005	--	L.01	--	.08	.02
81-07-14	0845	479	.03	L.0005	.0005	--	L.01	--	.08	L.02
81-08-25	0945	479	.03 05V	L.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11H
81-09-08	0850	479	.09 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-06	0900	479	.04 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-11-03	0915	479	.05 05D	L.0005	L.0005	--	L.01	--	.06	L.02
81-12-08	0915	479	.05 05D	L.0005	L.0005	--	.01	--	.11	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-15	1045	479	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-21	0930	479	--	.001	--	--	.003	--	.006	L.004
80-08-20	0930	479	--	.003	--	--	L.002	--	L.002	L.004
80-10-07	1030	479	--	L.001	--	--	L.002	--	.004	L.004
81-01-13	1110	479	--	.018	--	--	.009	--	.004	L.004
81-05-20	0830	479	--	L.001	--	--	.002	--	--	L.004
81-08-25	0945	479	--	.001 20H	--	--	L.002 20H	--	.002 20H	L.004 01H
81-10-06	0900	479	--	L.001	--	--	L.002	--	L.002	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-15	1045	479	.004	--	.001	--	.32	L.10	L.001	--
80-05-21	0930	479	--	.001	--	.011	--	--	--	L.001
80-08-20	0930	479	--	.002	--	.007	--	--	--	L.001
80-10-07	1030	479	--	.001	--	.005	--	--	--	L.001
81-01-13	1110	479	--	.003	--	.005	--	--	--	.001
81-05-20	0830	479	--	.004	--	--	--	--	--	L.001
81-08-25	0945	479	--	L.001 20H	--	.006 20H	--	--	--	L.001 20H
81-10-06	0900	479	--	.001	--	.006	--	--	--	L.001

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07BE0001 LAT. 54D 43M 18S LONG. 113D 17M 8S
ATHABASCA RIVER AT ATHABASCA, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020F LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-15	1045	479	.07	--	L.004	--	--	.001	--	--
80-02-12	1100	479	--	--	--	--	--	.002	--	--
80-03-11	1130	479	--	--	--	--	--	L.001	--	--
80-04-08	1130	479	--	--	--	--	--	.002	--	--
80-05-21	0930	479	--	.05	--	L.004	--	.001	--	--
80-06-03	0856	479	--	--	--	--	--	.002 35W	--	--
80-07-08	0815	479	--	--	--	--	--	.002	--	--
80-08-20	0930	479	--	.05	--	.012	--	.001	--	--
80-09-08	0940	479	--	--	--	--	--	.001	--	--
80-10-07	1030	479	--	L.05	--	L.004	--	.001	--	--
80-11-04	1015	479	--	--	--	--	--	L.001	--	--
80-12-02	1110	479	--	--	--	--	--	.004	--	--
81-01-13	1110	479	--	.08	--	.004	--	.002	--	--
81-02-10	1110	479	--	--	--	--	--	L.001	--	--
81-03-03	1100	479	--	--	--	--	--	.001	--	--
81-04-15	0700	479	--	--	--	--	--	.002	--	--
81-05-20	0830	479	--	.06	--	L.004	--	.003	--	--
81-06-23	0900	479	--	--	--	--	--	L.001	--	--
81-07-14	0845	479	--	--	--	--	--	.001	--	--
81-08-25	0945	479	--	.07 20W	--	L.004 20W	--	L.001 35W	--	--
81-09-08	0850	479	--	--	--	--	--	L.001	--	--
81-10-06	0900	479	--	.05	--	L.004	--	L.001	--	--
81-11-03	0915	479	--	--	--	--	--	.002	--	--
81-12-08	0915	479	--	--	--	--	--	.001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-15	1045	479	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-05-21	0930	479	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-08-20	0930	479	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-10-07	1030	479	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-01-13	1110	479	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-05-20	0830	479	--	--	L.001	L.001	.002	.001	L.002	L.001
81-08-25	0945	479	--	--	L.001 30R	L.001 11R	.004 75R	L.001 70R	L.002 10R	L.001 20R
81-10-06	0900	479	--	--	L.001	L.001	.007	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-15	1045	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-21	0930	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-20	0930	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-07	1030	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-13	1110	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-20	0830	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-25	0945	479	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
81-10-06	0900	479	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

STATION - 00AL07BE0001 LAT. 54D 43M 18S LONG. 113D 17M 85
ATHABASCA RIVER AT ATHABASCA, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L NEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-15	1045	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-21	0930	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-20	0930	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-07	1030	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-13	1110	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-20	0830	479	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004
81-08-25	0945	479	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W	L.004 55W
81-10-06	0900	479	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-15	1045	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-21	0930	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-20	0930	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-07	1030	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
81-01-13	1110	479	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-05-20	0830	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-08-25	0945	473	L.002 10W	L.004 40W	--	L.002 59R	L.002 60R	--	L.005 62R	L.002 64R
81-10-06	0900	479	L.002	L.004	--	L.002	L.002	--	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-15	1045	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-05-21	0930	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-08-20	0930	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-10-07	1030	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-01-13	1110	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-05-20	0830	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-08-25	0945	479	L.5 90W	L.2 95W	L.2 05W	L.02 15W	L.20 30W	L.02 40W	L.02 45W	L.05 50W
81-10-06	0900	479	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-15	1045	479	L.02	L.02	L.02	L.02	L.02
80-05-21	0930	479	L.02	L.02	L.02	L.02	L.02
80-08-20	0930	479	L.02	L.02	L.02	L.02	L.02
80-10-07	1030	479	L.02	L.02	L.02	L.02	L.02
81-01-13	1110	479	L.02	L.02	L.02	L.02	L.02
81-05-20	0830	479	L.02	L.02	L.02	L.02	L.02
81-08-25	0945	479	L.02 60W	L.02 70W	L.02 00W	L.02 10W	L.02 20W
81-10-06	0900	479	L.02	L.02	L.02	L.02	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07FD0002 LAT. 55D 55M 18S LONG. 118D 38M 32S
PEACE RIVER AT HWY 2, DUNVEGAN, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-15	1330	1	0.0	21.1	238.	205.	--	7.9	--	1.6
80-02-12	1330	1	0.0	19.7	--	204.	8.3	8.3	--	8.8
80-03-25	1300	1	0.0	22.4	211.	213.	--	8.0	--	3.5
80-04-29	1200	1	2.0	22.0	200.	253.	8.1	8.2	--	44.0
80-05-13	1300	1	15.0	18.4	199.	226.	8.4	8.1	--	39.0
80-06-17	1200	1	19.0	19.7	211.	242.	8.1	8.2	--	170.0
80-07-15	1230	1	17.0	19.1	217.	258.	8.0	8.3	--	44.0
80-08-19	1230	1	18.0	15.5	205.	231.	8.5	8.2	--	6.5
80-09-16	1330	1	10.0	17.8	200.	226.	8.1	8.1	--	7.1
80-10-07	1300	1	12.0	17.4	190.	220.	8.3	8.2	--	16.0
80-11-18	1415	1	2.0	21.0	174.	216.	7.7	8.0	--	4.7
80-12-09	1400	1	0.0	21.1	196.	225.	8.5	8.2	--	3.7
81-01-13	1400	1	0.0	17.3	196.	234.	8.1	8.1	--	3.2
81-02-18	1330	1	0.0	19.9	207.	215.	8.0	8.1	--	4.4
81-03-17	1330	1	0.0	18.7	175.	215.	8.1	8.0	--	53.0
81-05-05	1300	1	8.0	16.7	152.	202.	8.2	7.9	--	200.0
81-05-20	1300	1	15.0	21.5	185.	209.	8.1	8.0	--	130.0
81-06-16	1130	1	13.0	19.4	218.	318.	8.4	8.1	--	53.0
81-07-14	1230	1	17.0	20.6	198.	230.	8.4	8.4	--	33.0
81-08-18	1200	1	17.0	22.3	211.	223.	8.8	8.4	--	2.3
81-09-15	1030	1	12.0	19.9	191.	197.	8.2	8.2	--	4.6
81-10-20	1200	1	6.0	18.1	190.	197.	8.4	8.1	--	3.8
81-11-10	1300	1	3.0	15.4	183.	191.	7.6	8.0	--	5.6
81-12-08	1030	1	0.0	21.5	170.	192.	8.6	8.0	--	4.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-15	1330	1	5.	--	L1.	--	--	52.	6.	L2. 02F
80-02-12	1330	1	5.	--	2.	--	--	L2.	L2.	L2. 02F
80-03-25	1300	1	10.	--	6.	--	--	28.	L2.	4. 02F
80-04-29	1200	1	80.	--	59.	--	--	9.	L2.	8. 02F
80-05-13	1300	1	60.	--	71.	--	--	8.	8.	10. 02F
80-06-17	1200	1	200.	--	353.	--	--	G30.	24.	52. 02F
80-07-15	1230	1	120.	--	62.	--	--	8.	6.	8. 02F
80-08-19	1230	1	30.	--	18.	--	--	4.	L2.	L2. 02F
80-09-16	1330	1	30.	--	18.	--	--	35.	L2.	L2. 02F
80-10-07	1300	1	50.	--	37.	--	--	48.	20.	L2. 02F
80-11-18	1415	1	30.	--	5.	--	--	3.	3.	L2. 02F
80-12-09	1400	1	40.	--	4.	--	--	L2.	L2.	L2. 02F
81-01-13	1400	1	10.	--	1.	--	--	37.	L2.	L2. 02F
81-02-18	1330	1	10.	--	5.	--	--	11.	L2.	L2. 02F
81-03-17	1330	1	120.	--	137.	--	--	195.	8.	54. 02F
81-05-05	1300	1	--	60.	1605.	--	--	70. 01F	23. 11F	L2. 02F
81-05-20	1300	1	--	40.	268.	--	--	170. 01F	17. 11F	--
81-06-16	1130	1	--	30.	71.	--	--	79. 01F	33. 11F	--
81-07-14	1230	1	--	20.	11.	--	--	2.	2.	122. 02F
81-08-18	1200	1	--	10.	4.	--	--	6.	L2.	L2. 02F
81-09-15	1030	1	--	20.	7.	--	--	6.	L2.	L2. 02F
81-10-20	1200	1	--	10.	9.	--	--	191.	6.	L2. 02F
81-11-10	1300	1	--	10.	13.	--	--	17.	1.	L2. 02F
81-12-08	1030	1	--	10.	6.	--	--	68.	L2.	L2. 02F

STATION - 00AL07FB0002 LAT. 55D 55M 18S LONG. 118D 38M 32S
PEACE RIVER AT HWY 2, DUNVEGAN, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-15	1330	1	14.3	0.	0.0	107.	88.0 06L	31.30	6.8	106.2
80-02-12	1330	1	14.1	0.	0.0	95.	78.0 06L	28.00	7.0	98.7
80-03-25	1300	1	13.3	0.	0.0	87.	71.0 06L	27.50	6.3	94.6
80-04-29	1200	1	11.9	0.	0.0	120.	98.0	32.10	7.7	111.9
80-05-13	1300	1	10.6	0.	0.0	117.	96.0	31.50	7.6	109.9
80-06-17	1200	1	10.8	0.	0.0	120.	98.0	31.40	7.5	109.3
80-07-15	1230	1	8.7	0.	0.0	129.	106.0	34.50	8.3	120.3
80-08-19	1230	1	9.9	0.	0.0	116.	95.0	33.30	7.8	115.3
80-09-16	1330	1	11.1	0.	0.0	116.	95.0	30.50	7.8	108.3
80-10-07	1300	1	10.9	0.	0.0	113.	93.0	30.60	6.8	104.4
80-11-18	1415	1	13.4	0.	0.0	110.	90.0	31.00	7.7	109.1
80-12-09	1400	1	13.2	0.	0.0	116.	95.0	33.20	7.7	114.6
81-01-13	1400	1	12.8	0.	0.0	118.	97.0	33.10	7.3	112.7
81-02-18	1330	1	13.4	0.	0.0	110.	90.0	31.00	7.7	109.1
81-03-17	1330	1	13.0	0.	0.0	104.	85.0	29.30	6.5	99.9
81-05-05	1300	1	11.7	0.	0.0	89.	73.0	28.80	6.5	98.7
81-05-20	1300	1	11.0	0.	0.0	109.	89.0	30.20	6.8	103.4
81-06-16	1130	1	10.8	0.	0.0	123.	101.0	34.40	7.9	118.4
81-07-14	1230	1	10.4	0.	0.0	122.	100.0	32.80	7.1	111.1
81-08-18	1200	1	10.2	1.	.4	119.	98.0	32.50	7.6	112.4
81-09-15	1030	1	10.5	0.	0.0	104.	85.0	29.10	6.4	99.0
81-10-20	1200	1	11.3	0.	0.0	104.	85.0	29.50	6.7	101.3
81-11-10	1300	1	11.6	0.	0.0	101.	83.0	27.80	5.9	93.7
81-12-08	1030	1	13.4	0.	0.0	106.	87.0	30.40	6.4	102.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-15	1330	1	109.	1.6	.4	.7	.06	11.	4.5	--
80-02-12	1330	1	100.	1.5	.4	.8	.06	11.	4.2	--
80-03-25	1300	1	95.	1.8	.5	.8	L.05	12.	4.1	--
80-04-29	1200	1	128.	3.1	.6	.9	.07	16.	8.6	--
80-05-13	1300	1	115.	2.0	.5	.6	.06	12.	3.1	--
80-06-17	1200	1	118.	2.4	.6	.7	.06	13.	3.5	--
80-07-15	1230	1	130.	2.8	.6	.9	.08	15.	3.9	--
80-08-19	1230	1	117.	2.1	.6	.7	L.05	12.	3.8	--
80-09-16	1330	1	114.	2.0	.4	.8	L.05	12.	3.8	--
80-10-07	1300	1	112.	1.6	.5	.7	L.05	12.	3.7	--
80-11-18	1415	1	110.	2.0	.5	.9	.09	10.	3.8	--
80-12-09	1400	1	116.	2.1	.4	.9	.07	10.	4.2	--
81-01-13	1400	1	119.	2.2	.5	1.1	.08	12.	4.4	--
81-02-18	1330	1	110.	1.5	.5	.8	.08	10.	4.2	--
81-03-17	1330	1	107.	2.3	1.3	1.0	.09	12.	4.0	--
81-05-05	1300	1	107.	3.1	1.8	1.0	.13	18.	4.0	--
81-05-20	1300	1	108.	1.8	.6	.5	.09	11.	4.0	--
81-06-16	1130	1	122.	2.3	.4	.6	L.05	12.	3.6	--
81-07-14	1230	1	119.	2.3	.5	.7	L.05	12.	3.6	--
81-08-18	1200	1	118.	2.2	.5	.9	L.05	12.	3.5	--
81-09-15	1030	1	102.	1.7	.4	.8	.05	9.	3.4	--
81-10-20	1200	1	103.	1.7	.4	.8	.06	9.	3.4	--
81-11-10	1300	1	99.	1.5	.4	.7	.05	9.	4.0	--
81-12-08	1030	1	106.	1.4	.4	.7	L.05	10.	4.4	--

STATION - 00AL07FD0002 LAT. 55D 55M 18S LONG. 118D 38M 32S
PEACE RIVER AT HWY 2, DUNVEGAN, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-15	1330	1	.013	.010 03L	.003	.10 10L	--	.17	.04	.21
80-02-12	1330	1	.008	.003 03L	.005	.06 10L	--	.15	L.01	Q.16
80-03-25	1300	1	.009	.004 03L	.005	.05 10L	--	.13	.03	.16
80-04-29	1200	1	.084	.030 03L	.054	.05 10L	--	.22	.26	.48
80-05-13	1300	1	.077	.006 03L	.071	.07 10L	--	.15	.19	.34
80-06-17	1200	1	.320	.015 03L	.305	.05 10L	--	.19	.58	.77
80-07-15	1230	1	.070	.009 03L	.061	.02 10L	--	.16	.20	.36
80-08-19	1230	1	.024	--	--	.01 10L	--	.08	.43	.51
80-09-16	1330	1	.011	L.003 03L	Q.008	L.01 10L	--	.09	.12	.21
80-10-07	1300	1	.042	.005 03L	.037	.01 10L	--	.10	.10	.20
80-11-18	1415	1	.016	.003 03L	.013	.03 10L	--	.13	.04	.17
80-12-09	1400	1	.010	--	--	.07 10L	--	.14	.04	.18
81-01-13	1400	1	.009	.006 03L	.003	.07 10L	--	.15	.02	.17
81-02-18	1330	1	.005	L.003 03L	Q.002	.07 10L	--	.13	.05	.18
81-03-17	1330	1	.140	.029 03L	.111	.14 10L	--	.29	.32	.61
81-05-05	1300	1	2.100	.060 03L	2.040	.07 10L	--	.44	2.20	2.64
81-05-20	1300	1	.270	.018 03L	.252	.06 10L	--	.24	.49	.73
81-06-16	1130	1	.084	.006 03L	.078	.03 10L	--	.14	.17	.31
81-07-14	1230	1	.017	L.003 03L	Q.014	.01 10L	--	.10	.06	.16
81-08-18	1200	1	.006	.006 03L	0.000	L.01 10L	--	.10	.04	.14
81-09-15	1030	1	.024	.005 03L	.019	.01 10L	--	.10	.04	.14
81-10-20	1200	1	.020	L.003 03L	Q.017	.03 10L	--	.09	.04	.13
81-11-10	1300	1	.031	.006 03L	.025	.04 10L	--	.10	.04	.14
81-12-08	1030	1	.019	L.003 03L	Q.016	.08 10L	--	.15	.03	.18

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-15	1330	1	L.1	--	18.0	3.0	.10	3.1	L.005	.03 05P
80-02-12	1330	1	L.1	--	14.0	2.0	.09	2.1	--	--
80-03-25	1300	1	L.1	--	14.0	1.0	.14	1.1	--	--
80-04-29	1200	1	L.1	--	--	3.0	1.50	4.5	--	--
80-05-13	1300	1	L.1	--	--	3.0	1.80	4.8	--	--
80-06-17	1200	1	L.1	--	--	4.0	5.40	9.4	--	--
80-07-15	1230	1	L.1	--	--	6.0	2.30	8.3	--	--
80-08-19	1230	1	L.1	--	--	4.0	.61	4.6	--	--
80-09-16	1330	1	L.1	--	--	3.0	.96	4.0	--	--
80-10-07	1300	1	L.1	--	--	4.0	.94	4.9	--	--
80-11-18	1415	1	L.1	--	--	3.0	.29	3.3	--	--
80-12-09	1400	1	L.1	--	--	3.0	.25	3.3	--	--
81-01-13	1400	1	L.1	--	--	2.0	.11	2.1	--	--
81-02-18	1330	1	L.1	--	--	2.0	.18	2.2	--	--
81-03-17	1330	1	L.1	--	--	3.0	3.10	6.1	--	--
81-05-05	1300	1	L.1	--	--	12.0	23.50	35.5	--	--
81-05-20	1300	1	L.1	--	--	6.8	6.00	12.8	--	--
81-06-16	1130	1	L.1	--	--	4.1	2.60	6.7	--	--
81-07-14	1230	1	L.1	--	--	3.4	.43	3.8	--	--
81-08-18	1200	1	L.1	--	--	2.1	.23	2.3	--	--
81-09-15	1030	1	L.1	--	--	2.7	.28	3.0	--	--
81-10-20	1200	1	L.1	--	--	2.3	.36	2.7	--	--
81-11-10	1300	1	L.1	--	--	2.2	.43	2.6	--	--
81-12-08	1030	1	L.1	--	--	2.3	.33	2.6	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07FD0002
PEACE RIVER AT HWY 2. DUNVEGAN, ALBERTA

LAT. 55D 55M 18S LONG. 118D 36M 22S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-15	1330	1	L.02	L.0005 04L	L.0005 02L	L.01	--	.06	--	L.02
80-02-12	1330	1	--	--	--	--	--	--	--	.03
80-03-25	1300	1	--	--	--	--	--	--	--	.12
80-04-29	1200	1	.06	L.0005 04L	L.0005 02L	--	L.01 04L	--	L.04 04L	.03
80-05-13	1300	1	.04	L.0005 04L	L.0005 02L	--	L.01 04L	--	.06 04L	.02
80-06-17	1200	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	.05
80-07-15	1230	1	.10	L.0005 04L	L.0005 02L	--	--	--	--	.03
80-08-19	1230	1	.06	L.0005 04L	L.0005 02L	--	--	--	--	.15
80-09-16	1330	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-10-07	1300	1	.03	L.0005 04L	L.0005 02L	.02	--	.69	--	.08
80-11-18	1415	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-12-09	1400	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	.04
81-01-13	1400	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	.05
81-02-18	1330	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	.08
81-03-17	1330	1	.04	.0005 04L	L.0005 02L	--	--	--	--	.05
81-05-06	1300	1	.11	.0007 04L	L.0005 02L	--	--	--	--	--
81-05-20	1300	1	.07	L.0005 04L	.0006 02L	L.01	--	1.80	--	--
81-06-16	1130	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	--
81-07-14	1230	1	.02	L.0005 04L	L.0005 02L	--	--	--	--	--
81-08-18	1200	1	.02	!.0005 04L	L.0005 02L	L.01	--	.09	--	--
81-09-15	1030	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	--
81-10-20	1200	1	.04	L.0005 04L	L.0005 02L	L.01	--	.26	--	--
81-11-10	1300	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	--
81-12-08	1030	1	.05	L.0005 04L	L.0005 02L	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-15	1330	1	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-13	1300	1	--	L.001	--	--	L.002	--	.004	L.004
80-08-19	1230	1	--	L.001	--	--	L.002	--	.002	L.004
80-10-07	1300	1	--	.002	--	--	L.002	--	L.002	L.004
81-01-13	1400	1	--	.002	--	--	.007	--	.008	L.004
81-05-20	1300	1	--	L.001	--	--	.004	--	--	L.004
81-08-18	1200	1	--	L.001	--	--	L.002	--	L.002	L.004
81-10-20	1200	1	--	.001	--	--	L.002	--	L.002	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-15	1330	1	.002	--	.001	--	.12	L.10	L.001	--
80-05-13	1300	1	--	.003	--	.015	--	--	--	L.001
80-08-19	1230	1	--	.002	--	.006	--	--	--	L.001
80-10-07	1300	1	--.	.001	--	.006	--	--	--	.001
81-01-13	1400	1	--	L.001	--	.004	--	--	--	.001
81-05-20	1300	1	--	.004	--	--	--	--	--	L.001
81-08-18	1200	1	--	L.001	--	.005	--	--	--	L.001
81-10-20	1200	1	--	L.001	--	.003	--	--	--	L.001

STATION - 00AL07FB0002 LAT. 55D 55M 18S LONG. 118D 38M 32S
PEACE RIVER AT HWY 2, DUNVEGAN, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-15	1330	1	L.05	--	L.004	--	--	L.001	--	--
80-02-12	1330	1	--	--	--	--	--	.001	--	--
80-03-25	1300	1	--	--	--	--	--	.001	--	--
80-04-29	1200	1	--	--	--	--	--	.001	--	--
80-05-13	1300	1	--	.08	--	L.004	--	.001	--	--
80-06-17	1200	1	--	--	--	--	--	.002	--	--
80-07-15	1230	1	--	--	--	--	--	L.001	--	--
80-08-19	1230	1	--	.05	--	L.004	--	.001	--	--
80-09-16	1330	1	--	--	--	--	--	.001	--	--
80-10-07	1300	1	--	L.05	--	L.004	--	L.001	--	--
80-11-18	1415	1	--	--	--	--	--	L.001	--	--
80-12-08	1400	1	--	--	--	--	--	L.001	--	--
81-01-13	1400	1	--	L.05	--	.004	--	.001	--	--
81-02-18	1330	1	--	--	--	--	--	.001	--	--
81-03-17	1330	1	--	--	--	--	--	.001	--	--
81-05-05	1300	1	--	--	--	--	--	.002	--	--
81-05-20	1300	1	--	.16	--	L.004	--	.001	--	--
81-06-16	1130	1	--	--	--	--	--	L.001	--	--
81-07-14	1230	1	--	--	--	--	--	L.001	--	--
81-08-18	1200	1	--	.06	--	L.004	--	.002	--	--
81-09-15	1030	1	--	--	--	--	--	L.001	--	--
81-10-20	1200	1	--	.05	--	L.004	--	L.001	--	--
81-11-10	1300	1	--	--	--	--	--	.003	--	--
81-12-08	1030	1	--	--	--	--	--	L.001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-15	1330	1	--	--	L.001	L.001	.005	.001	L.002	L.001
80-05-13	1300	1	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-08-19	1230	1	--	--	L.001	L.001	.005	L.001	L.002	L.001
80-10-07	1300	1	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-01-13	1400	1	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-05-20	1300	1	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-08-18	1200	1	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-10-20	1200	1	--	--	L.001	L.001	.005	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-15	1330	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-13	1300	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-19	1230	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-07	1300	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-13	1400	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-20	1300	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-18	1200	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-20	1200	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

STATION - 00AL07FB0002
PEACE RIVER AT HWY 2, DUNVEGAN, ALBERTA

LAT. 55D 55M 18S LONG. 118D 38M 32S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L NEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-15	1330	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-13	1300	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-19	1230	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-07	1300	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-13	1400	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-20	1300	1	L.002	L.001	L.003	L.002	--	--	--	--
81-08-18	1200	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-20	1200	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-15	1330	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-13	1300	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-19	1230	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-07	1300	1	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-01-13	1400	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-05-20	1300	1	--	--	--	L.002	L.002	--	L.005	L.002
81-08-18	1200	1	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-10-20	1200	1	L.002	L.004	--	L.002	L.002	--	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-15	1330	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-05-13	1300	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-08-19	1230	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-10-07	1300	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-01-13	1400	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-05-20	1300	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-08-18	1200	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-10-20	1200	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-15	1330	1	L.02	L.02	L.02	L.02	L.02
80-05-13	1300	1	L.02	L.02	L.02	L.02	L.02
80-08-19	1230	1	L.02	L.02	L.02	L.02	L.02
80-10-07	1300	1	L.02	L.02	L.02	L.02	L.02
81-01-13	1400	1	L.02	L.02	L.02	L.02	L.02
81-05-20	1300	1	L.02	L.02	L.02	L.02	L.02
81-08-18	1200	1	L.02	L.02	L.02	L.02	L.02
81-10-20	1200	1	L.02	L.02	L.02	L.02	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07BJ0001 SMOKY RIVER AT WATINO, ALBERTA — LAT. 55D 42M 58S LONG. 117D 37M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-14	1500	1	0.0	17.7	613.	615.	--	7.5	--	2.0
80-02-11	1315	1	0.0	20.8	683.	567.	8.2	7.4	--	7.9
80-03-24	1300	1	0.0	22.5	708.	557.	7.9	7.6	--	4.5
80-04-28	1230	1	12.0	18.6	217.	250.	8.2	8.1	--	42.0
80-05-12	1330	1	10.0	17.0	205.	259.	8.0	8.0	--	42.0
80-06-16	1200	1	22.0	20.0	214.	237.	8.1	8.1	--	120.0
80-07-14	1200	1	17.0	18.4	222.	263.	8.3	8.2	--	40.0
80-08-18	1250	1	17.0	16.6	274.	297.	8.5	8.2	--	21.0
80-09-15	1230	1	11.0	19.5	295.	327.	8.6	8.2	--	16.0
80-10-06	1510	1	10.0	20.5	250.	295.	8.1	8.1	--	15.0
80-11-17	1330	1	2.0	19.5	392.	445.	8.6	7.9	--	22.0
80-12-08	1315	1	0.0	22.1	480.	540.	8.2	8.2	--	13.0
81-01-12	1430	1	0.0	17.9	349.	393.	8.5	--	--	9.2
81-02-16	1330	1	.5	17.1	452.	540.	7.7	7.9	--	4.8
81-03-16	1400	1	0.0	15.9	425.	483.	7.7	7.8	--	36.0
81-05-04	1100	1	8.0	19.0	250.	270.	8.3	8.1	--	180.0
81-05-19	1300	1	17.0	20.6	220.	239.	8.4	8.3	--	150.0
81-06-15	1100	1	15.0	19.3	220.	246.	8.4	8.2	--	58.0
81-07-13	1300	1	21.5	17.2	262.	281.	8.6	8.4	--	20.0
81-08-17	1200	1	20.0	25.4	245.	260.	8.3	8.3	--	74.0
81-09-14	1130	1	11.5	19.0	240.	308.	8.6	8.3	--	25.0
81-10-19	1100	1	5.0	23.4	340.	445.	8.4	8.2	--	3.3
81-11-09	1000	1	5.0	19.7	327.	343.	8.6	8.1	--	9.8
81-12-07	1200	1	0.0	17.9	468.	537.	8.6	8.2	--	5.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-14	1500	1	80.	--	L1.	--	--	30.	L2.	L2. 02F
80-02-11	1315	1	140.	--	3.	--	--	51.	40.	L2. 02F
80-03-24	1300	1	140.	--	10.	--	--	6.	L2.	L2. 02F
80-04-28	1230	1	200.	--	413.	--	--	L2.	L2.	14. 02F
80-05-12	1330	1	80.	--	105.	--	--	4.	4.	2. 02F
80-06-16	1200	1	200.	--	337.	--	--	G6.	6.	14. 02F
80-07-14	1200	1	120.	--	104.	--	--	14.	6.	38. 02F
80-08-18	1250	1	50.	--	36.	--	--	10.	3.	2. 02F
80-09-15	1230	1	60.	--	30.	--	--	100.	30.	26. 02F
80-10-06	1510	1	100.	--	27.	--	--	45.	4.	14. 02F
80-11-17	1330	1	100.	--	27.	--	--	136.	2.	26. 02F
80-12-08	1315	1	200.	--	7.	--	--	87.	L2.	22. 02F
81-01-12	1430	1	30.	--	29.	--	--	19.	L2.	L2. 02F
81-02-16	1330	1	50.	--	5.	--	--	L2.	L2.	L2. 02F
81-03-16	1400	1	160.	--	40.	--	--	28.	2.	70. 02F
81-05-04	1100	1	--	50.	544.	--	--	130. 01F	33. 11F	L2. 02F
81-05-19	1300	1	--	30.	484.	--	--	46. 01F	31. 11F	--
81-06-15	1100	1	--	50.	145.	--	--	79. 01F	33. 11F	--
81-07-13	1300	1	--	30.	28.	--	--	7.	6.	368. 02F
81-08-17	1200	1	--	20.	72.	--	--	18.	L1.	12. 02F
81-09-14	1130	1	--	20.	20.	--	--	19.	4.	L2. 02F
81-10-19	1100	1	--	60.	4.	--	--	2.	2.	20. 02F
81-11-09	1000	1	--	20.	14.	--	--	63.	L1.	L2. 02F
81-12-07	1200	1	--	80.	4.	--	--	G320.	G180.	6. 02F

STATION - 00AL07GJ0001
SMOKY RIVER AT WATINO, ALBERTA

LAT. 55D 42M 58S LONG. 117D 37M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-14	1500	1	8.8	0.	0.0	217.	178.0 OGL	70.00	17.2	245.6
80-02-11	1315	1	7.2	0.	0.0	234.	192.0 OGL	71.80	19.8	260.8
80-03-24	1300	1	5.7	0.	0.0	207.	170.0 OGL	68.00	17.8	243.1
80-04-28	1230	1	10.2	0.	0.0	115.	94.0	31.20	7.5	108.8
80-05-12	1330	1	10.2	0.	0.0	118.	97.0	30.90	7.8	109.3
80-06-16	1200	1	10.5	0.	0.0	113.	93.0	30.40	7.8	108.0
80-07-14	1200	1	8.6	0.	0.0	128.	105.0	34.20	8.6	120.8
80-08-18	1250	1	8.6	0.	0.0	140.	115.0	40.00	10.0	141.1
80-09-15	1230	1	10.7	0.	0.0	152.	125.0	41.50	10.8	148.1
80-10-06	1510	1	10.0	0.	0.0	140.	115.0	36.70	9.3	129.9
80-11-17	1330	1	9.6	0.	0.0	199.	163.0	54.50	14.2	194.6
80-12-08	1315	1	13.1	0.	0.0	256.	210.0	72.80	18.0	255.9
81-01-12	1430	1	12.6	--	0.0	--	144.0	50.20	13.0	178.9
81-02-16	1330	1	11.7	0.	0.0	230.	189.0	64.70	15.8	226.6
81-03-16	1400	1	11.1	0.	0.0	189.	155.0	55.20	14.3	196.7
81-05-04	1100	1	11.4	0.	0.0	130.	107.0	35.20	8.4	122.5
81-05-19	1300	1	10.0	0.	0.0	123.	101.0	32.10	8.0	113.1
81-06-15	1100	1	9.8	0.	0.0	129.	106.0	33.90	8.5	119.6
81-07-13	1300	1	8.7	0.	0.0	133.	109.0	36.70	9.3	129.9
81-08-17	1200	1	9.1	0.	0.0	130.	107.0	35.50	8.5	123.6
81-09-14	1130	1	9.8	0.	0.0	137.	112.0	38.70	10.1	138.2
81-10-19	1100	1	11.8	0.	0.0	184.	151.0	51.50	14.3	187.5
81-11-09	1000	1	13.7	0.	0.0	228.	187.0	47.10	12.3	168.3
81-12-07	1200	1	13.9	0.	0.0	243.	199.0	63.80	17.2	230.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-14	1500	1	317.	27.0	1.1	19.0	.12	70.	5.8	--
80-02-11	1315	1	364.	37.0	1.2	33.0	.12	80.	5.7	--
80-03-24	1300	1	359.	44.0	1.3	38.0	.10	82.	5.4	--
80-04-28	1230	1	133.	7.3	1.8	3.1	.07	21.	4.5	--
80-05-12	1330	1	129.	4.5	.6	2.4	.07	21.	3.2	--
80-06-16	1200	1	120.	3.8	.7	1.4	.08	16.	3.7	--
80-07-14	1200	1	135.	4.9	.8	1.9	.08	17.	4.4	--
80-08-18	1250	1	157.	6.2	.6	3.3	.06	24.	3.7	--
80-09-15	1230	1	169.	7.8	.7	4.7	.08	25.	3.4	--
80-10-06	1510	1	148.	5.2	.6	3.2	.07	20.	3.9	--
80-11-17	1330	1	231.	14.0	1.0	9.4	.13	36.	4.3	--
80-12-08	1315	1	301.	19.0	1.2	12.0	.13	46.	6.0	--
81-01-12	1430	1	207.	10.0	.9	6.6	.12	35.	4.4	--
81-02-16	1330	1	281.	19.0	1.0	15.0	.11	47.	5.4	--
81-03-16	1400	1	256.	19.0	2.3	15.0	.19	52.	4.9	--
81-05-04	1100	1	148.	8.0	1.4	2.6	.13	24.	4.6	--
81-05-19	1300	1	133.	4.3	.8	1.3	.10	22.	3.9	--
81-06-15	1100	1	132.	4.7	.7	1.8	L.05	15.	3.9	--
81-07-13	1300	1	149.	6.0	.5	4.0	.09	24.	3.1	--
81-08-17	1200	1	139.	5.2	.5	2.7	.06	20.	2.7	--
81-09-14	1130	1	161.	7.6	.6	6.5	.07	28.	2.2	--
81-10-19	1100	1	234.	17.0	1.0	13.0	.12	44.	3.0	--
81-11-09	1000	1	219.	7.4	.7	1.6	.11	34.	3.6	--
81-12-07	1200	1	309.	25.0	1.3	16.0	.13	62.	4.4	--

STATION - 00AL07GJ0001 LAT. 55D 42M 58S LONG. 117D 37M 18S
SMOKY RIVER AT WATINO, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-14	1500	1	.010	.010 03L	0.000	.11 10L	--	.39	.04	.43
80-02-11	1315	1	.013	.005 03L	.008	.11 10L	--	.29	.06	.35
80-03-24	1300	1	.016	.012 03L	.004	.09 10L	--	.28	.04	.32
80-04-28	1230	1	.360	.022 03L	.338	.05 10L	--	.36	.83	1.19
80-05-12	1330	1	.086	.021 03L	.065	.02 10L	--	.17	.23	.40
80-06-16	1200	1	.290	.012 03L	.278	.02 10L	--	.18	.44	.62
80-07-14	1200	1	.071	.005 03L	.066	L.01 10L	--	.19	.19	.38
80-08-18	1250	1	.024	.005 03L	.019	L.01 10L	--	.12	.14	.26
80-09-15	1230	1	.024	.003 03L	.021	L.01 10L	--	.17	.11	.28
80-10-06	1510	1	.037	.010 03L	.027	.01 10L	--	.18	.06	.24
80-11-17	1330	1	.040	.007 03L	.033	.04 10L	--	.20	.04	.24
80-12-08	1315	1	.024	.005 03L	.019	.02 10L	--	.23	.53	.76
81-01-12	1430	1	.020	.005 03L	.015	.05 10L	--	.25	.05	.30
81-02-16	1330	1	.013	.005 03L	.008	.06 10L	--	.19	.02	.21
81-03-16	1400	1	.071	.025 03L	.046	.35 10L	--	.68	.20	.88
81-05-04	1100	1	.420	.012 03L	.408	L.01 10L	--	.27	.99	1.26
81-05-19	1300	1	.720	.010 03L	.710	.03 10L	--	.23	.79	1.02
81-06-15	1100	1	.110	.008 03L	.102	.01 10L	--	.17	.23	.40
81-07-13	1300	1	.020	L.003 03L	Q.017	L.01 10L	--	.07	.06	.13
81-08-17	1200	1	.031	L.003 03L	Q.028	L.01 10L	--	.10	.10	.20
81-09-14	1130	1	.012	.003 03L	.009	L.01 10L	--	.07	.04	.11
81-10-19	1100	1	.010	.005 03L	.005	L.01 10L	--	.11	L.01	Q.12
81-11-09	1000	1	.013	L.003 03L	Q.010	.01 10L	--	.08	.05	.13
81-12-07	1200	1	.035	.013 03L	.022	.02 10L	--	.22	.11	.33

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-14	1500	1	.1	--	40.0	7.0	.28	7.3	.009	.04 05P
80-02-11	1315	1	.1	--	34.0	9.0	.49	9.5	--	--
80-03-24	1300	1	L.1	--	33.0	11.0	.67	11.7	--	--
80-04-28	1230	1	.1	--	--	11.0	9.40	20.4	--	--
80-05-12	1330	1	L.1	--	--	5.0	2.20	7.2	--	--
80-06-16	1200	1	L.1	--	--	6.0	6.60	12.6	--	--
80-07-14	1200	1	L.1	--	--	8.0	2.80	10.8	--	--
80-08-18	1250	1	L.1	--	--	5.0	1.00	6.0	--	--
80-09-15	1230	1	L.1	--	--	7.0	.21	7.2	--	--
80-10-06	1510	1	L.1	--	--	6.0	.88	6.9	--	--
80-11-17	1330	1	L.1	--	--	6.0	1.10	7.1	--	--
80-12-08	1315	1	.1	--	--	9.0	.61	9.6	--	--
81-01-12	1430	1	--	--	--	5.0	.39	5.4	--	--
81-02-16	1330	1	L.1	--	--	6.0	.32	6.3	--	--
81-03-16	1400	1	L.1	--	--	7.0	1.50	8.5	--	--
81-05-04	1100	1	L.1	--	--	9.2	16.70	25.9	--	--
81-05-19	1300	1	L.1	--	--	6.8	13.70	20.5	--	--
81-06-15	1100	1	L.1	--	--	7.8	3.10	10.9	--	--
81-07-13	1300	1	L.1	--	--	2.7	.80	3.5	--	--
81-08-17	1200	1	L.1	--	--	3.0	1.60	4.6	--	--
81-09-14	1130	1	L.1	--	--	2.4	.70	3.1	--	--
81-10-19	1100	1	L.1	--	--	5.1	.34	5.4	--	--
81-11-09	1000	1	L.1	--	--	4.0	.50	4.5	--	--
81-12-07	1200	1	L.1	--	--	6.4	.75	7.2	--	--

STATION - 00AL07GJ0001 LAT. 55D 42M 58S LONG. 117D 37M 18S
SMOKY RIVER AT WATINO, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-14	1500	1	.14	L.0005 04L	L.0005 02L	.02	--	.16	--	L.02
80-02-11	1315	1	--	--	--	--	--	--	--	.02
80-03-24	1300	1	--	--	--	--	--	--	--	.08
80-04-28	1230	1	.10	L.0005 04L	L.0005 02L	--	L.01 04L	--	.09 04L	.04
80-05-12	1330	1	--	--	--	--	--	--	--	L.02
80-06-16	1200	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	.03
80-07-14	1200	1	.07	L.0005 04L	L.0005 02L	--	--	--	--	.06
80-08-18	1250	1	.08	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-09-15	1230	1	.07	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-10-06	1510	1	.11	L.0005 04L	L.0005 02L	.02	--	.55	--	.09
80-11-17	1330	1	.08	L.0005 04L	L.0005 02L	--	--	--	--	.04
80-12-08	1315	1	.11	.0005 04L	L.0005 02L	--	--	--	--	.04
81-01-12	1430	1	.10	L.0005 04L	L.0005 02L	--	--	--	--	.05
81-02-16	1330	1	.13	L.0005 04L	L.0005 02L	--	--	--	--	.04
81-03-16	1400	1	.15	L.0005 04L	L.0005 02L	--	--	--	--	.05
81-05-04	1100	1	.08	.0006 04L	L.0005 02L	--	--	--	--	--
81-05-19	1300	1	.07	L.0005 04L	L.0005 02L	.28	--	4.50	--	--
81-06-15	1100	1	.07	L.0005 04L	L.0005 02L	--	--	--	--	--
81-07-13	1300	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	--
81-08-17	1200	1	.04	L.0005 04L	L.0005 02L	.04	--	.75	--	--
81-09-14	1130	1	.07	L.0005 04L	L.0005 02L	--	--	--	--	--
81-10-19	1100	1	.09	L.0005 04L	L.0005 02L	.01	--	.10	--	--
81-11-09	1000	1	.04	L.0005 04L	L.0005 02L	--	--	--	--	--
81-12-07	1200	1	.18	L.0005 04L	L.0005 02L	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-14	1500	1	L.001	--	L.015	L.002	--	L.002	--	L.004
80-05-12	1330	1	--	.004	--	--	.004	--	.011	L.004
80-08-18	1250	1	--	.002	--	--	L.002	--	.004	L.004
80-10-06	1510	1	--	L.001	--	--	.005	--	.007	L.004
81-01-12	1430	1	--	.003	--	--	.008	--	.007	L.004
81-05-19	1300	1	--	.002	--	--	.008	--	--	L.004
81-08-17	1200	1	--	L.001	--	--	L.002	--	L.002	L.004
81-10-19	1100	1	--	.001	--	--	L.002	--	.005	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-14	1500	1	.002	--	.002	--	.48	L.10	L.001	--
80-05-12	1330	1	--	.004	--	.020	--	--	--	.001
80-08-18	1250	1	--	.002	--	.010	--	--	--	L.001
80-10-06	1510	1	--	.002	--	.005	--	--	--	L.001
81-01-12	1430	1	--	.003	--	.007	--	--	--	.002
81-05-19	1300	1	--	.008	--	--	--	--	--	L.001
81-08-17	1200	1	--	.002	--	.007	--	--	--	L.001
81-10-19	1100	1	--	L.001	--	.002	--	--	--	L.001

STATION - 00AL07GJ0001 LAT. 55D 42M 58S LONG. 117D 37M 18S
SMOKY RIVER AT WATINO, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-14	1500	1	.11	--	L.004	--	--	.005	--	--
80-02-11	1315	1	--	--	--	--	--	.007	--	--
80-03-24	1300	1	--	--	--	--	--	.005	--	--
80-04-28	1230	1	--	--	--	--	--	.002	--	--
80-05-12	1330	1	--	.08	--	.006	--	.001	--	--
80-06-16	1200	1	--	--	--	--	--	.002	--	--
80-07-14	1200	1	--	--	--	--	--	.001	--	--
80-08-18	1250	1	--	.08	--	L.004	--	.003	--	--
80-09-15	1230	1	--	--	--	--	--	.001	--	--
80-10-06	1510	1	--	L.05	--	L.004	--	.002	--	--
80-11-17	1330	1	--	--	--	--	--	.001	--	--
80-12-08	1315	1	--	--	--	--	--	.003	--	--
81-01-12	1430	1	--	.06	--	L.004	--	.003	--	--
81-03-16	1400	1	--	--	--	--	--	.009	--	--
81-05-04	1100	1	--	--	--	--	--	.001	--	--
81-05-19	1300	1	--	.16	--	.006	--	.002	--	--
81-06-15	1100	1	--	--	--	--	--	.002	--	--
81-07-13	1300	1	--	--	--	--	--	.002	--	--
81-08-17	1200	1	--	.08	--	L.004	--	L.001	--	--
81-09-14	1130	1	--	--	--	--	--	.002	--	--
81-10-19	1100	1	--	.12	--	L.004	--	.002	--	--
81-11-09	1000	1	--	--	--	--	--	.005	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-14	1500	1	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-05-12	1330	1	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-08-18	1250	1	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-10-06	1510	1	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-01-12	1430	1	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-05-19	1300	1	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-08-17	1200	1	--	--	L.001	L.001	.010	L.001	L.002	L.001
81-11-09	1000	1	--	--	L.001	L.001	.004	.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-14	1500	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-12	1330	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-18	1250	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-06	1510	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-12	1430	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-19	1300	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-17	1200	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-11-09	1000	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

STATION - 00AL07GJ0001 LAT. 55D 42M 56S LONG. 117D 37M 18S
SMOKY RIVER AT WATINO, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA- (CIS) CHLORDANE UG/L	18065L GAMMA- (TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-14	1500	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-12	1330	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-18	1250	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-06	1510	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-12	1430	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-19	1300	1	L.002	L.001	L.003	L.002	L.2	.010	L.009	L.004
81-08-17	1200	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-19	1100	1	--	--	--	--	L.2	L.004	L.009	L.004
81-11-09	1000	1	L.002	L.001	L.003	L.002	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-14	1500	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-12	1330	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-18	1250	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-06	1510	1	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-01-12	1430	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-05-19	1300	1	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-08-17	1200	1	L.002	L.004	--	L.002	L.002	--	L.005	L.002
81-10-19	1100	1	L.002	L.004	--	--	--	--	--	--
81-11-09	1000	1	--	--	--	L.002	L.002	--	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
80-01-14	1500	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-05-12	1330	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-08-18	1250	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
80-10-06	1510	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-01-12	1430	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-05-19	1300	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-08-17	1200	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05
81-10-19	1100	1	L.5	L.2	L.2	L.02	L.20	L.02	L.02	L.05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L
80-01-14	1500	1	L.02	L.02	L.02	L.02	L.02
80-05-12	1330	1	L.02	L.02	L.02	L.02	L.02
80-08-18	1250	1	L.02	L.02	L.02	L.02	L.02
80-10-06	1510	1	L.02	L.02	L.02	L.02	L.02
81-01-12	1430	1	L.02	L.02	L.02	L.02	L.02
81-05-19	1300	1	L.02	L.02	L.02	L.02	L.02
81-08-17	1200	1	L.02	L.02	L.02	L.02	L.02
81-10-19	1100	1	L.02	L.02	L.02	L.02	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07NB0001 LAT. 59D 52M 9S LONG. 111D 35M 8S
SLAVE RIVER AT FITZGERALD, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-23	1230	1	0.0	12.8	254.	259.	--	7.8	--	5.5
80-05-16	1045	1	10.0	20.1	--	269.	--	8.0	--	41.0
80-06-25	1550	1	19.0	19.9	--	364.	--	7.9	--	180.0
80-07-15	1045	1	22.0	21.5	200.	257.	7.8	8.0	--	82.0
80-08-07	0930	1	19.0	20.2	225.	263.	7.7	8.1	--	52.0
80-09-02	1700	1	16.0	20.6	200.	243.	8.0	8.0	--	30.0
80-10-20	1600	1	6.0	19.2	190.	258.	7.4	8.0	--	27.0
81-01-05	1800	1	1.0	21.3	200.	258.	--	7.8	--	4.8
81-06-11	1000	1	15.0	18.7	194.	227.	8.2	3.0	--	170.0
81-07-27	1445	1	20.0	22.1	225.	265.	7.6	7.9	--	64.0
81-08-31	1430	1	17.0	21.2	180.	227.	--	8.2	--	49.0
81-11-16	1430	1	0.0	19.8	160.	201.	7.4	7.9	--	9.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-23	1230	1	60.	--	144.	--	--	--	--	--
80-05-16	1045	1	80.	--	49.	--	--	--	--	--
80-06-25	1550	1	400.	--	298.	--	--	--	--	--
80-07-15	1045	1	200.	--	132.	--	--	--	--	--
80-08-07	0930	1	100.	--	65.	--	--	--	--	--
80-09-02	1700	1	100.	--	47.	--	--	--	--	--
80-10-20	1600	1	100.	--	41.	--	--	--	--	--
81-01-05	1800	1	20.	--	3.	--	--	--	--	--
81-06-11	1000	1	--	30.	277.	--	--	--	--	--
81-07-27	1445	1	--	30.	155.	--	--	--	--	--
81-08-31	1430	1	--	30.	255. 01R	--	--	--	--	--
81-11-16	1430	1	--	20.	12.	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101W OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-23	1230	1	--	0.	0.0	96.	79.0 06L	31.80	7.7	111.1
80-05-16	1045	1	--	0.	0.0	112.	92.0	31.60	7.8	111.0
80-06-25	1550	1	--	0.	0.0	116.	95.0	37.50	7.8	125.8
80-07-15	1045	1	--	0.	0.0	118.	97.0	32.80	7.6	113.2
80-08-07	0930	1	--	0.	0.0	120.	98.0	34.30	8.8	121.9
80-09-02	1700	1	--	0.	0.0	107.	88.0	28.20	7.0	99.2
80-10-20	1600	1	--	0.	0.0	116.	95.0	41.70	7.7	135.8
81-01-05	1800	1	--	0.	0.0	110.	90.0	31.00	7.7	109.1
81-06-11	1000	1	--	0.	0.0	110.	90.0	31.60	7.3	109.0
81-07-27	1445	1	--	0.	0.0	109.	89.0	42.00	8.0	137.8
81-08-31	1430	1	--	0.	0.0	101.	83.0	28.10	6.9	98.6
81-11-16	1430	1	--	0.	0.0	99.	81.0	28.90	6.7	99.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-23	1230	1	124.	5.0	.9	8.2	.07	18.	5.1	--
80-05-16	1045	1	141.	10.0	1.3	7.1	.09	24.	3.8	--
80-06-25	1550	1	153.	7.7	1.1	6.3	.10	31.	4.5	--
80-07-15	1045	1	133.	6.2	1.0	4.0	.09	18.	4.9	--
80-08-07	0930	1	142.	8.1	1.0	5.8	.08	20.	5.1	--
80-09-02	1700	1	126.	7.6	.4	7.4	.06	18.	4.8	--
80-10-20	1600	1	141.	6.1	.7	5.7	.10	17.	4.7	--
81-01-05	1800	1	128.	7.1	1.0	6.7	.08	15.	5.0	--
81-06-11	1000	1	119.	4.1	.8	2.4	.06	15.	3.9	--
81-07-27	1445	1	142.	7.3	.8	6.3	.10	20.	4.0	--
81-08-31	1430	1	116.	6.3	.8	5.9	.08	15	3.6	--
81-11-16	1430	1	112.	5.0	.7	4.4	L.05	14.	3.8	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07NB0001　　LAT. 59D 52M 8S　LONG. 111D 36M 8S
SLAVE RIVER AT FITZGERALD, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-23	1230	1	.200	.015 03L	.185	.11 10L	--	.38	.55	.93
80-05-16	1045	1	.077	.016 03L	.061	.06 10L	--	.25	.17	.42
80-06-25	1550	1	.260	.020 03L	.240	--	--	.31	.60	.91
80-07-15	1045	1	.170	.009 03L	.161	.06 10L	--	.27	.32	.59
80-08-07	0930	1	.079	.012 03L	.067	.03 10L	--	.12	.25	.37
80-09-02	1700	1	.049	.011 03L	.038	.01 10L	--	.22	.25	.47
80-10-20	1600	1	.059	.009 03L	.050	.01 10L	--	.26	.12	.38
81-01-05	1800	1	.018	.006 03L	.012	.06 10L	--	.25	.07	.32
81-06-11	1000	1	.360	.025 03L	.335	.06 10L	--	.23	.54	.77
81-07-27	1445	1	.920	.008 03L	.912	.02 10L	--	.21	.32	.53
81-08-31	1430	1	.320 06R	.010 03R	.310	.02 10R	--	.17 51R	.50 02R	.67
81-11-16	1430	1	.018	.004 03L	.014	.03 10L	--	.10	.05	.15

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-23	1230	1	--	--	20.0	4.0	4.80	8.8	--	--
80-05-16	1045	1	--	--	--	7.0	1.20	8.2	--	--
80-06-25	1550	1	--	--	--	7.0	5.50	12.5	--	--
80-07-15	1045	1	--	--	--	7.0	3.30	10.3	--	--
80-08-07	0930	1	--	--	--	6.0	1.80	7.8	--	--
80-09-02	1700	1	--	--	--	8.0	1.60	9.6	--	--
80-10-20	1600	1	--	--	--	8.0	1.40	9.4	--	--
81-01-05	1800	1	--	--	--	5.0	.44	5.4	--	--
81-06-11	1000	1	--	--	--	6.4	6.00	12.4	--	--
81-07-27	1445	1	--	--	--	5.8	3.80	9.6	--	--
81-08-31	1430	1	--	--	--	3.6 04R	5.20 02R	8.8	--	--
81-11-16	1430	1	--	--	--	3.2	.34	3.5	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-23	1230	1	.05	L.0005 04L	L.0005 02L	.15	--	2.80	--	.02
80-05-16	1045	1	.06	L.0005 04L	L.0005 02L	--	.04 04L	--	.06 04L	.06
80-06-25	1550	1	.08	.0006 04L	L.0005 02L	--	--	--	--	L.02
80-07-15	1045	1	.08	L.0005 04L	L.0005 02L	--	--	--	--	.10
80-08-07	0930	1	.07	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-09-02	1700	1	.08	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-10-20	1600	1	.08	L.0005 04L	L.0005 02L	.04	--	.77	--	.02
81-01-05	1800	1	.07	L.0005 04L	L.0005 02L	.01	--	.25	--	.02
81-06-11	1000	1	.06	L.0005 04L	L.0005 02L	.10	--	2.10	--	--
81-07-27	1445	1	.07	L.0005 04L	L.0005 02L	.28	--	8.10	--	--
81-08-31	1430	1	--	.0007 04R	L.0005 02R	.15 04W	--	4.10 04W	--	--
81-11-16	1430	1	.04	L.0005 04L	L.0005 02L	.01	--	.21	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-23	1230	1	L.001	--	--	L.002	--	--	--	--
80-05-16	1045	1	--	.002	--	--	.003	--	.012	--
80-06-25	1550	1	--	L.001	--	--	.006	--	.020	--
80-07-15	1045	1	--	.008	--	--	.002	--	.008	--
80-08-07	0930	1	--	.004	--	--	L.002	--	.003	--
80-09-02	1700	1	--	.002	--	--	L.002	--	.003	--
80-10-20	1600	1	--	.003	--	--	L.002	--	L.002	--
81-01-05	1800	1	--	L.001	--	--	.003	--	.003	--
81-06-11	1000	1	--	.002	--	--	.003	--	--	--
81-07-27	1445	1	--	.022	--	--	.005	--	.021	--
81-08-31	1430	1	--	.016 20W	--	--	.004 20W	--	.010 20W	--
81-11-16	1430	1	--	L.001	--	--	L.002	--	.003	--

STATION - 00AL07NB0001 LAT. 59D 52M 05 LONG. 111D 35M 05
SLAVE RIVER AT FITZGERALD, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-23	1230	1	.008	--	.019	--	--	--	L.001	--
80-05-16	1045	1	--	.004	--	.031	--	--	--	L.001
80-06-25	1550	1	--	.011	--	.037	--	--	--	L.001
80-07-15	1045	1	--	.006	--	.017	--	--	--	L.001
80-08-07	0830	1	--	.003	--	.010	--	--	--	L.001
80-09-02	1700	1	--	.007	--	.033	--	--	--	L.001
80-10-20	1800	1	--	.002	--	.011	--	--	--	.001
81-01-05	1800	1	--	.004	--	.02,	--	--	--	.001
81-06-11	1000	1	--	.003	--	.022	--	--	--	.001
81-07-27	1445	1	--	.018	--	.057	--	--	--	L.001
81-08-31	1430	1	--	.011 20H	--	.029 20H	--	--	--	L.001 20H
81-11-16	1430	1	--	.001	--	L.001	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-23	1230	1	.07	--	.005	--	--	.002	--	--
80-05-16	1045	1	--	.07	--	L.004	--	.007	--	--
80-06-25	1550	1	--	.15	--	.004	--	.001	--	--
80-07-15	1045	1	--	.09	--	L.004	--	.001	--	--
80-08-07	0830	1	--	.05	--	L.004	--	.002	--	--
80-09-02	1700	1	--	.05	--	L.004	--	.001	--	--
80-10-20	1800	1	--	L.05	--	L.004	--	L.001	--	--
81-01-05	1800	1	--	L.05	--	L.004	--	.002	--	--
81-06-11	1000	1	--	.08	--	L.004	--	.001	--	--
81-07-27	1445	1	--	.24	--	.015	--	.002	--	--
81-08-31	1430	1	--	.17 20H	--	L.004 20H	--	.001 35H	--	--
81-11-16	1430	1	--	.05	--	L.004	--	.001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-23	1230	1	--	--	L.001	L.001	.002	L.001	L.002	L.001
80-05-16	1045	1	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-06-25	1550	1	--	--	L.001	L.001	.005	L.001	L.002	L.001
80-07-15	1045	1	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-08-07	0830	1	--	--	L.001	L.001	.008	L.001	L.002	L.001
80-09-02	1700	1	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-10-20	1600	1	--	--	L.001	L.001	.006	L.001	L.002	L.001
81-06-11	1000	1	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-07-27	1445	1	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-08-31	1430	1	--	--	L.001 30R	L.001 11R	.003 75R	L.001 70R	L.002 10R	L.001 20R
81-11-16	1430	1	--	--	L.001	L.001	.004	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-23	1230	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-16	1045	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-06-25	1550	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-07-15	1045	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-07	0830	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-09-02	1700	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-20	1800	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-06-11	1000	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-07-27	1445	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-31	1430	1	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
81-11-16	1430	1	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

STATION - 00AL07NB0001 LAT. 59D 52M 8S LONG. 111D 36M 8S
SLAVE RIVER AT FITZGERALD, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L NEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-23	1230	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-05-16	1045	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-06-25	1550	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-07-15	1045	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-07	0830	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-09-02	1700	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-20	1600	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-05	1800	1	--	--	--	--	L.2	L.004	L.009	L.004
81-06-11	1000	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-07-27	1445	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-31	1430	1	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20H	L.004 00H	L.009 50H	L.004 55H
81-11-16	1430	1	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-23	1230	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-16	1045	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-06-25	1550	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-07-15	1045	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-07	0830	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-09-02	1700	1	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-10-20	1600	1	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-01-05	1800	1	L.002	L.004	L.2	--	--	--	--	--
81-06-11	1000	1	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-27	1445	1	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-31	1430	1	L.002 10H	L.004 40H	L.2 01H	L.002 59R	L.002 60R	--	L.005 62R	L.002 64R
81-11-16	1430	1	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07NB0003 LAT. 58D 48M 50S LONG. 111D 57M 43S
BENCH MARK CREEK NEAR FORT SMITH, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-04-25	1715	1	16.0	18.7	--	29300.	--	8.1	--	.9
80-05-16	1200	1	17.0	19.8	--	50800.	7.5	7.8	--	4.2
80-06-25	1505	1	--	19.6	--	55500.	8.7	8.3	--	5.5
80-08-06	1600	1	21.0	21.0	--	57200.	9.2	9.1	--	3.0
80-09-02	1200	1	12.0	20.5	--	54500.	7.5	7.9	--	1.5
80-10-03	1250	1	6.0	20.6	--	49000.	7.6	8.0	--	1.0
80-11-03	1645	1	--	20.0	--	55000.	--	7.9	--	3.5
81-06-10	1345	1	23.0	20.0	--	40700.	7.8	8.0	--	5.7
81-07-31	1000	1	18.0	21.9	--	46700.	8.1	8.0	--	25.0
81-08-04	0830	1	16.0	22.3	--	55300.	7.1	7.4	--	1.8
81-08-31	1530	1	13.0	22.1	--	57100.	--	8.2	--	1.1
81-09-30	1030	1	5.0	21.0	--	52900.	7.7	7.9	--	.9
81-11-02	1445	1	0.0	18.1	--	57500.	7.6	7.5	--	1.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	35103F FECAL STREP. MF NO/DL
80-04-25	1715	1	50.	--	33.	--	--	--	--	--
80-05-16	1200	1	40.	--	47.	--	--	--	--	--
80-06-25	1505	1	60.	--	52.	--	--	--	--	--
80-08-06	1600	1	40.	--	26.	--	--	--	--	--
80-09-02	1200	1	30.	--	51.	--	--	--	--	--
80-10-03	1250	1	30.	--	22.	--	--	--	--	--
80-11-03	1645	1	20.	--	33.	--	--	--	--	--
81-06-10	1345	1	--	40.	12.	--	--	--	--	--
81-07-31	1000	1	--	30.	22.	--	--	--	--	--
81-08-04	0830	1	--	30.	11.	--	--	--	--	--
81-08-31	1530	1	--	30.	2.	--	--	--	--	--
81-09-30	1030	1	--	20.	11	--	--	--	--	--
81-11-02	1445	1	--	30.	11.	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-04-25	1715	1	--	0	0.0	146.	120.0	422.00	31.5	1183.4
80-05-16	1200	1	--	0.	--	179.	147.0	1050.00	70.0	2910.0
80-06-25	1505	1	--	0.	0.0	72.	59.0	1090.00	75.0	3030.5
80-08-06	1600	1	--	9.	7.8	25.	36.0	1370.00	75.0	3729.7
80-09-02	1200	1	--	0.	0.0	84	69.0	1040.00	72.0	2893.3
80-10-03	1250	1	--	0.	0.0	189.	155.0	853.00	73.0	2430.5
80-11-03	1645	1	--	0.	0.0	213	175.0	1180.00	75.0	3255.2
81-06-10	1345	1	--	0.	0.0	189.	155.0	1090.00	60.0	2968.8
81-07-31	1000	1	--	0.	0.0	56.	46.0	1270.00	81.0	3504.7
81-08-04	0830	1	--	0.	0.0	65.	53.0	1050.00	86.0	2975.9
81-08-31	1530	1	--	0.	0.0	45.	37.0	1300.00	78.0	3567.2
81-09-30	1030	1	--	0	0.0	152.	125.0	1000.00	72.0	2793.4
81-11-02	1445	1	--	0.	0.0	207.	170.0	1220.00	95.0	3437.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-04-25	1715	1	16425.	6200.0	5.3	9300.0	.35	392.	1.7	--
80-05-16	1200	1	32578.	11300.0	9.3	17500.0	.65	2560	.4	--
80-06-25	1505	1	36911.	13000.0	8.7	20000.0	.67	2700.	1.5	--
80-08-06	1600	1	39919.	14400.0	12.0	21000.0	.60	3040	.6	--
80-09-02	1200	1	35244.	12500.0	9.5	18900.0	.41	2680	.9	--
80-10-03	1250	1	17248.	5500.0	8.1	8500.0	.52	2220.	1.3	--
80-11-03	1645	1	36213.	12800.0	8.2	19400.0	.52	2640.	5.2	--
81-06-10	1345	1	--	6900.0	8.0	11250.0	.70	2200.	--	--
81-07-31	1000	1	33067.	10600.0	8.0	19000.0	.60	2620.	.4	--
81-08-04	0830	1	42739.	14100.0	11.0	24500.0	.65	2960.	.4	--
81-08-31	1530	1	39793.	14000.0	12.0	21500.0	.55	2880.	.4	--
81-09-30	1030	1	34796.	12000.0	8.9	19000.0	.57	2640	.4	--
81-11-02	1445	1	37137.	13000.0	13.0	20000.0	.65	2700.	6.8	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07NB0003
BENCH MARK CREEK NEAR FORT SMITH, ALBERTA — LAT. 59D 48M 50S LONG. 111D 57M 43S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-04-25	1715	1	.021	.008 03L	.013	.01 10L	--	.54	.24	.78
80-05-16	1200	1	.016	.012 03L	.004	.01 10L	--	.26	.07	.33
80-06-25	1505	1	.140	.068 03L	.072	.01 10L	--	.49	.26	.75
80-08-06	1500	1	.020	.008 03L	.012	.02 10L	--	.27	.08	.35
80-09-02	1200	1	.016	.009 03L	.007	L.01 10L	--	.27	.07	.34
80-10-03	1250	1	.010	.009 03L	.001	L.01 10L	--	.36	.05	.41
80-11-03	1645	1	.003	.003 03L	0.000	.01 10L	--	.18	.05	.23
81-06-10	1345	1	.037	.013 03L	.024	L.01 10L	--	.35	.21	.56
81-07-31	1000	1	.039	.008 03L	.031	.01 10L	--	.16	.59	.75
81-08-04	0830	1	.074	.017 03L	.057	.02 10L	--	.14	.05	.19
81-08-31	1530	1	.024	.011 03L	.013	.01 10L	--	--	.07	--
81-09-30	1030	1	.013	.008 03L	.005	L.01 10L	--	--	L.01	--
81-11-02	1445	1	.018	.004 03L	.014	.14 10L	--	.46	.05	.51

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-04-25	1715	1	--	--	--	6.0	.56	6.6	--	--
80-05-16	1200	1	--	--	--	5.0	.48	5.5	--	--
80-06-25	1505	1	--	--	--	4.0	1.90	5.9	--	--
80-08-06	1500	1	--	--	--	3.0	.49	3.5	--	--
80-09-02	1200	1	--	--	--	3.0	.42	3.4	--	--
80-10-03	1250	1	--	--	--	4.0	.22	4.2	--	--
80-11-03	1645	1	--	--	--	3.0	.25	3.3	--	--
81-06-10	1345	1	--	--	--	6.3	1.30	7.6	--	--
81-07-31	1000	1	--	--	--	5.1	4.70	9.8	--	--
81-08-04	0830	1	--	--	--	4.6	.34	4.9	--	--
81-08-31	1530	1	--	--	--	3.3	.48	3.8	--	--
81-09-30	1030	1	--	--	--	11.0	.23	11.2	--	--
81-11-02	1445	1	--	--	--	3.9	.34	4.2	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-04-25	1715	1	.29	L.0005 04L	L.0005 02L	--	.02 04L	--	.07 04L	.04
80-05-16	1200	1	.70	L.0005 04L	L.0005 02L	--	L.01 04L	--	.15 04L	.03
80-06-25	1505	1	.83	L.0005 04L	L.0005 02L	--	--	--	--	--
80-08-06	1500	1	.83	L.0005 04L	L.0005 02L	--	--	--	--	--
80-09-02	1200	1	--	L.0005 04L	L.0005 02L	--	--	--	--	--
80-10-03	1250	1	--	L.0005 04L	L.0005 02L	.06	--	--	--	.02
80-11-03	1645	1	.70	L.0005 04L	L.0005 02L	.05	--	.33	--	.02
81-06-10	1345	1	--	L.0005 04L	L.0005 02L	.16	--	.32	--	.03
81-07-31	1000	1	.70	L.0005 04L	L.0005 02L	.09	--	.68	--	--
81-08-04	0830	1	.70	L.0005 04L	L.0005 02L	.08	--	1.40	--	--
81-08-31	1530	1	--	L.0005 04L	L.0005 02L	.06	--	.45	--	--
81-09-30	1030	1	.80	L.0005 04L	L.0005 02L	.05	--	.31	--	--
81-11-02	1445	1	.90	L.0005 04L	L.0005 02L	.09	--	.30	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-04-25	1715	1	--	.001	--	--	.002	--	.004	--
80-05-16	1200	1	--	L.001	--	--	.002	--	.003	--
80-06-25	1505	1	--	L.001	--	--	L.002	--	.006	--
80-08-06	1500	1	--	L.001	--	--	L.002	--	L.002	--
80-09-02	1200	1	--	.001	--	--	L.002	--	.002	--
80-10-03	1250	1	--	L.001	--	--	L.002	--	.011	--
80-11-03	1645	1	--	L.001	--	--	L.002	--	.010	--
81-06-10	1345	1	--	.002	--	--	.002	--	--	--
81-07-31	1000	1	--	.001	--	--	L.002	--	L.002	--
81-08-04	0830	1	--	L.001	--	--	L.002	--	.004	--
81-08-31	1530	1	--	.001	--	--	.002	--	L.002	--
81-09-30	1030	1	--	L.001	--	--	L.002	--	L.002	--
81-11-02	1445	1	--	L.001	--	--	L.002	--	L.002	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL07NB0003 LAT. 59D 48M 50S LONG. 111D 57M 43S
BENCH MARK CREEK NEAR FORT SMITH, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-04-25	1715	1	--	.002	--	.016	--	--	--	L.001
80-06-18	1200	1	--	.002	--	.005	--	--	--	L.001
80-06-25	1505	1	--	.001	--	.004	--	--	--	L.001
80-08-08	1500	1	--	.002	--	.003	--	--	--	L.001
80-09-02	1200	1	--	.001	--	.009	--	--	--	L.001
80-10-03	1250	1	--	.002	--	.004	--	--	--	L.001
80-11-03	1645	1	--	L.001	--	.002	--	--	--	L.001
81-06-10	1345	1	--	.002	--	.002	--	--	--	.001
81-07-31	1000	1	--	.003	--	.005	--	--	--	L.001
81-08-04	0830	1	--	.002	--	.001	--	--	--	L.001
81-08-31	1530	1	--	.004	--	.005	--	--	--	L.001
81-09-30	1030	1	--	.004	--	.002	--	--	--	L.001
81-11-02	1445	1	--	.001	--	.008	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-04-25	1715	1	--	.11	--	L.004	--	--	--	--
80-06-18	1200	1	--	L.05	--	L.004	--	--	--	--
80-06-25	1505	1	--	--	--	L.004	--	--	--	--
80-08-08	1500	1	--	--	--	L.004	--	--	--	--
80-09-02	1200	1	--	L.05	--	L.004	--	--	--	--
80-10-03	1250	1	--	.05	--	L.004	--	--	--	--
80-11-03	1645	1	--	.05	--	L.004	--	--	--	--
81-06-10	1345	1	--	--	--	L.004	--	--	--	--
81-07-31	1000	1	--	--	--	L.004	--	--	--	--
81-08-04	0830	1	--	--	--	L.004	--	--	--	--
81-08-31	1530	1	--	--	--	L.004	--	--	--	--
81-09-30	1030	1	--	.07	--	L.004	--	--	--	--
81-11-02	1445	1	--	.06	--	L.004	--	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0001
NORTH MILK RIVER NEAR THE INTERNATIONAL BOUNDARY, ALBERTA

LAT. 49D 1M 18S LONG. 112D 58M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-23	1230	3	1.0	16.0	--	488.	7.5	7.8	1.7	1.2
80-02-20	1300	3	.5	21.9	--	486.	7.8	7.8	.8	2.7
80-03-20	1235	3	1.5	20.3	210.	256.	7.9	8.0	3.6	7.1
80-04-16	1330	3	5.0	23.6	180.	227.	8.1	7.8	--	27.0
80-05-14	1100	3	10.5	18.0	170.	192.	8.4	8.2	9.2	5.3
80-06-11	1030	3	13.5	19.1	170.	180.	--	8.3	10.0	4.2
80-07-16	1030	3	14.0	18.0	140.	144.	8.5	8.2	12.0	7.5
80-08-07	0845	3	15.0	20.6	140.	147.	8.4	8.1	8.0	4.8
80-09-17	0900	3	11.0	21.9	--	345.	8.5	8.3	1.2	.9
80-10-22	0830	3	2.0	20.9	337.	460.	8.6	8.4	4.0	3.2
80-11-26	1015	3	.5	20.3	450.	534.	8.4	8.0	3.0	2.3
80-12-10	1020	3	0.0	21.5	420.	490.	8.1	7.9	3.0	2.8
81-01-21	1015	3	.5	22.5	394.	494.	8.4	8.2	3.0	2.2
81-02-18	1000	3	.5	21.1	284.	367.	8.2	7.8	26.0	22.0
81-03-11	0845	3	0.0	17.2	155.	197.	8.4	8.2	48.0	37.0
81-04-08	1215	3	4.0	18.2	153.	183.	8.4	8.2	15.0	12.0
81-05-13	1030	3	8.0	22.5	168.	189.	8.4	8.2	17.0	6.5
81-06-03	0815	3	11.0	16.2	176.	171.	8.2	8.2	36.0	18.0
81-07-02	1215	3	16.0	20.9	--	162.	8.2	8.2	24.0	9.6
81-08-19	0805	3	17.0	20.0	146.	156.	8.2	8.4	10.0	4.1
81-09-23	1000	3	9.0	22.2	144.	154.	8.2	8.1	--	5.7
81-10-20	1400	3	4.0	16.5	464.	470.	8.1	8.3	--	2.4
81-11-18	0800	3	0.0	23.5	506.	473.	8.5	8.3	--	2.0
81-12-17	0800	3	0.0	19.7	497.	475.	--	8.0	--	1.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-23	1230	3	5.	--	2.	--	--	6.	3.	--
80-02-20	1300	3	10.	--	13.	--	--	15.	7.	--
80-03-20	1235	3	20.	--	10.	--	--	L2.	L2.	--
80-04-16	1330	3	70.	--	288.	--	L.001	330.	L10.	--
80-05-14	1100	3	10.	--	13.	--	.003	--	L2.	--
80-06-11	1030	3	20.	--	15.	--	.001	--	38.	--
80-07-16	1030	3	20.	--	16.	--	L.001	--	33.	--
80-08-07	0845	3	10.	--	14.	--	.001	--	28.	--
80-09-17	0900	3	30.	--	14.	--	.002	--	28.	--
80-10-22	0830	3	10.	--	4.	--	L.001	24.	16.	--
80-11-26	1015	3	20.	--	5.	--	.002	7.	L2.	--
80-12-10	1020	3	20.	--	2.	--	L.001	--	--	--
81-01-21	1015	3	5.	--	3.	--	L.001	L2.	L2.	--
81-02-18	1000	3	160.	--	11.	--	L.001	680.	38.	--
81-03-11	0845	3	40	--	81.	--	.004	L2.	L2.	--
81-04-08	1215	3	--	10.	20.	--	.003	L2.	L2.	--
81-05-13	1030	3	--	5.	18.	--	.001	--	4.	--
81-06-03	0815	3	--	10.	29.	--	.002	41.	36.	--
81-07-02	1215	3	--	5.	29.	--	.004	--	88.	--
81-08-19	0805	3	--	5.	9.	--	.001	--	34.	--
81-09-23	1000	3	--	10.	11.	--	.001	16.	4.	--
81-10-20	1400	3	--	10.	4. 01R	--	.001 17T	2. 02U	L2. 12U	--
81-11-18	0800	3	--	10.	2.	--	L.001	10.	6.	--
81-12-17	0800	3	--	10.	1.	--	.001	--	45.	--

STATION - 00AL11AA0001 LAT. 49D 1M 18S LONG. 112D 58M 18S
NORTH MILK RIVER NEAR THE INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-23	1230	3	10.5	0.	0.0	244.	200.0 06L	50.50	23.8	224.1
80-02-20	1300	3	9.9	0.	0.0	207.	170.0 06L	55.00	24.4	237.8
80-03-20	1235	3	13.1	0.	0.0	100.	82.0 06L	26.00	10.2	106.9
80-04-16	1330	3	10.2	0.	0.0	112.	92.0	25.40	8.0	96.4
80-05-14	1100	3	9.8	0.	0.0	107.	88.0	22.50	8.2	89.9
80-06-11	1030	3	9.0	0.	0.0	99.	81.0	21.30	7.4	83.7
80-07-16	1030	3	9.8	0.	0.0	83.	68.0	19.00	6.4	73.8
80-08-07	0845	3	8.7	0.	0.0	83.	68.0	19.30	7.7	79.9
80-09-17	0800	3	9.3	0.	0.0	201.	165.0	38.00	16.4	162.4
80-10-22	0830	3	11.8	3.	2.2	271.	227.0	45.60	22.7	207.3
80-11-26	1015	3	11.9	0.	0.0	319.	262.0	56.00	25.8	246.1
80-12-10	1020	3	9.2	0.	0.0	312.	256.0	41.00	25.3	208.5
81-01-21	1015	3	12.0	0.	0.0	289.	237.0	50.70	25.6	232.0
81-02-18	1000	3	10.6	0.	0.0	191.	157.0	29.10	15.0	134.4
81-03-11	0845	3	12.5	0.	0.0	105.	86.0	22.80	7.8	89.0
81-04-08	1215	3	13.2	--	0.0	--	--	22.50	9.0	93.2
81-05-13	1030	3	11.0	0.	0.0	104.	85.0	23.70	7.9	91.7
81-06-03	0815	3	9.5	0.	0.0	102.	84.0	23.90	7.8	91.8
81-07-02	1215	3	9.5	0.	0.0	94.	77.0	20.30	7.0	79.5
81-08-19	0805	3	8.2	1.	.4	119.	98.0	20.20	6.9	78.9
81-09-23	1000	3	10.1	0.	0.0	91.	75.0	19.00	6.7	75.0
81-10-20	1400	3	11.9	0.	0.0	296.	243.0	42.10	24.8	207.2
81-11-18	0800	3	12.0	0.	0.0	305.	250.0	45.20	24.5	213.7
81-12-17	0800	3	11.3	0.	0.0	317.	260.0	46.20	26.9	226.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-23	1230	3	219.	5.2	.7	1.1	.13	6.	12.0	--
80-02-20	1300	3	211.	8.3	1.1	1.1	L.05	7.	12.0	--
80-03-20	1235	3	103.	4.5	1.1	.7	.06	6.	5.0	--
80-04-16	1330	3	105.	3.6	1.9	.8	.08	5.	4.9	--
80-05-14	1100	3	95.	1.8	.3	.3	L.05	6.	2.9	--
80-06-11	1030	3	87.	1.8	.3	.3	L.05	5.	2.6	--
80-07-16	1030	3	75.	1.2	.3	.3	L.05	4.	2.9	--
80-08-07	0845	3	76.	1.8	.2	.3	L.05	3.	2.6	--
80-09-17	0800	3	178.	7.7	1.1	.9	.09	8.	6.9	--
80-10-22	0830	3	231.	9.1	1.2	1.2	.15	6.	8.5	--
80-11-26	1015	3	27[illegible]	12.0	1.4	1.3	.11	6.	11.0	--
80-12-10	1020	3	25[illegible]	12.0	1.3	1.0	.14	6.	12.0	--
81-01-21	1015	3	246.	8.4	1.3	1.1	.14	6.	11.0	--
81-02-18	1000	3	195.	24.0	8.3	3.7	.13	10.	11.0	--
81-03-11	0845	3	95.	2.5	.7	.5	.08	6.	3.5	--
81-04-08	1215	3	--	2.4	.4	.3	L.05	6.	2.8	--
81-05-13	1030	3	94.	2.0	.3	.3	L.05	6.	3.0	--
81-06-03	0815	3	92.	2.1	.3	.3	L.05	4.	3.0	--
81-07-02	1215	3	82.	1.5	.3	.4	L.05	4.	2.7	--
81-08-19	0805	3	93.	1.3	.2	.2	L.05	3.	2.6	--
81-09-23	1000	3	79.	1.1	.3	.2	L.05	4.	2.2	--
81-10-20	1400	3	243.	13.0	1.4	1.2	.16	6.	8.0	--
81-11-18	0800	3	254.	14.0	1.5	1.1	.09	8.	10.0	--
81-12-17	0800	3	260.	9.9	1.4	1.1	.15	7.	12.0	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0001
NORTH MILK RIVER NEAR THE INTERNATIONAL BOUNDARY, ALBERTA LAT. 49D 1M 18S LONG. 112D 58M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-23	1230	3	.007	.004 03L	.003	.41 10L	--	.52	.03	.55
80-02-20	1300	3	.007	.003 03L	.004	.45 10L	--	.58	.04	.62
80-03-20	1235	3	.030	.021 03L	.009	.15 10L	--	.31	.07	.38
80-04-16	1330	3	.300	.040	.260	.09	.42	.40	1.50	1.90
80-05-14	1100	3	.009	L.003	Q.006	.06	.11	.13	.08	.21
80-06-11	1030	3	.014	.003	.011	.06	.11	.10	.09	.19
80-07-16	1030	3	.010	L.003	Q.007	.07	.10	.10	.10	.20
80-08-07	0845	3	.008	.003	.005	.05	.09	.09	.08	.17
80-09-17	0900	3	.012	L.003	Q.009	.11	.25	.24	.10	.34
80-10-22	0830	3	L.003	L.003	QQ.000	.16	.26	.28	.06	.34
80-11-26	1015	3	.005	L.003	Q.002	.43	.52	.54	.06	.60
80-12-10	1020	3	.003	L.003	QQ.000	.47	.59	.53	.05	.58
81-01-21	1015	3	.006	L.003	Q.003	.46	.50	.48	L.01	Q.49
81-02-18	1000	3	.290	.200	.090	.70	1.50	1.50	.51	2.01
81-03-11	0845	3	.037	L.003	Q.034	.22	.26	.28	.10	.38
81-04-08	1215	3	.022	L.003	Q.019	.05	.10	.12	.13	.25
81-05-13	1030	3	.010	L.003	Q.007	.05	.11	.12	.08	.20
81-06-03	0815	3	.031	L.003	Q.028	.07	.12	.14	.09	.23
81-07-02	1215	3	.028	--	--	.06	.11	.10	.07	.17
81-08-19	0805	3	.007	.003	.004	.04	.09	.09	.06	.15
81-09-23	1000	3	.010	L.003	Q.007	.01	.07	.07	.04	.11
81-10-20	1400	3	.009 08R	L.003 03V	Q.006	.28 10V	.42 51V	.42 51R	.05 02R	.47
81-11-18	0800	3	.009	.004	.005	.74	.75	.75	L.01	Q.76
81-12-17	0800	3	.010	.006	.004	.58	.60	.58	L.01	Q.59

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-23	1230	3	--	--	54.0	2.0	.13	2.1	--	--
80-02-20	1300	3	--	--	44.0	1.0	.17	1.2	--	--
80-03-20	1235	3	--	--	33.0	1.0	.30	1.3	--	--
80-04-16	1330	3	--	--	--	6.0 04D	--	--	--	--
80-05-14	1100	3	--	--	--	1.0 04D	--	--	--	--
80-06-11	1030	3	--	--	--	1.0 04D	.55	1.6	--	--
80-07-16	1030	3	--	--	--	1.0 04D	.68	1.7	--	--
80-08-07	0845	3	--	--	--	1.0 04D	.39	1.4	--	--
80-09-17	0900	3	--	--	--	2.0 04D	.56	2.6	--	--
80-10-22	0830	3	--	--	--	2.0 04D	.38	2.4	--	--
80-11-26	1015	3	--	--	--	2.0 04D	.28	2.3	--	--
80-12-10	1020	3	--	--	--	2.0 04D	.25	2.3	--	--
81-01-21	1015	3	--	--	--	2.0 04D	.17	2.2	--	--
81-02-18	1000	3	--	--	--	18.0 04D	2.20	20.2	--	--
81-03-11	0845	3	--	--	--	L1.0 04D	.88	Q1.9	--	--
81-04-08	1215	3	L.1	--	--	1.1	.79	1.9	--	--
81-05-13	1030	3	L.1	--	--	1.2	.52	1.7	--	--
81-06-03	0815	3	L.1	--	--	1.7	.76	2.5	--	--
81-07-02	1215	3	L.1	--	--	1.4	.61	2.0	--	--
81-08-19	0805	3	L.1	--	--	1.0	.35	1.4	--	--
81-09-23	1000	3	L.1	--	--	.8	.33	1.1	--	--
81-10-20	1400	3	L.1 08M	--	--	2.0 04R	.35 02R	2.4	--	--
81-11-18	0800	3	L.1	--	--	2.6	.20	3.0	--	--
81-12-17	0800	3	L.1	--	--	2.2	.13	2.3	--	--

STATION - 00AL11AA0001 LAT. 49D 1M 18S LONG. 112D 58M 18S
NORTH MILK RIVER NEAR THE INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-23	1230	3	.06	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-02-20	1300	3	.08	.0005 04L	L.0005 02L	--	--	--	--	L.02
80-03-20	1235	3	.06	L.0005 04L	L.0005 02L	--	--	--	--	L.02
80-04-16	1330	3	.08	.0006	L.0005	--	.02	--	.07	.02
80-05-14	1100	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
80-06-11	1030	3	.03	L.0005	L.0005	--	L.01	--	L.04	.05
80-07-16	1030	3	.03	L.0005	L.0005	--	L.01	--	L.04	.06
80-08-07	0845	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
80-09-17	0800	3	.07	.0009	L.0005	--	.02	--	.04	L.02
80-10-22	0830	3	.06	.0006	L.0005	--	L.01	--	L.04	L.02
80-11-26	1015	3	.08	.0005	L.0005	--	.01	--	L.04	L.02
80-12-10	1020	3	.08	.0008	L.0005	--	L.01	--	L.04	.02
81-01-21	1015	3	.07	L.0005	L.0005	--	L.01	--	L.04	L.02
81-02-18	1000	3	.22	.0013	L.0005	--	.02	--	.22	L.02
81-03-11	0845	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-04-08	1215	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-13	1030	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-06-03	0815	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-07-02	1215	3	.02	L.0005	L.0005	--	.02	--	L.04	L.02
81-08-18	0805	3	L.02	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-23	1000	3	L.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-20	1400	3	.07 05V	.0006 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11H
81-11-18	0800	3	.10 05D	.0006	L.0005	--	L.01	--	.04	L.02
81-12-17	0800	3	.08 05D	.0006	L.0005	--	L.01	--	L.04	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0002
MILK RIVER NEAR WESTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA LAT. 49D 5M 22S LONG. 112D 24M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-23	1125	3	1.0	13.7	1100.	1400.	7.5	7.7	1.3	.4
80-02-20	1150	3	1.0	21.2	920.	1020.	7.3	7.6	1.3	1.7
80-03-20	1140	3	1.0	20.9	490.	573.	7.8	7.7	3.2	7.7
80-04-16	1115	3	4.5	24.5	--	318.	8.4	7.8	G600.0	550.0
80-05-14	0800	3	9.5	18.1	460.	521.	8.7	8.5	9.1	5.6
80-06-11	0800	3	16.0	18.5	430.	490.	--	8.6	11.0	8.5
80-07-16	0800	3	13.0	17.8	500.	555.	8.7	8.5	5.0	4.2
80-08-06	1245	3	14.0	20.5	660.	676.	8.5	8.4	4.0	2.9
80-09-16	1245	3	10.0	21.2	449.	646.	8.6	8.5	20.0	16.0
80-10-21	1300	3	6.0	19.2	504.	560.	8.6	8.5	11.0	8.5
80-11-25	1330	3	.5	20.1	710.	785.	8.4	8.1	5.0	3.7
80-12-09	1330	3	1.0	22.2	800.	950.	8.0	7.9	4.0	3.6
81-01-20	1345	3	2.0	16.7	579.	652.	8.4	8.2	6.0	4.7
81-02-17	1400	3	.5	17.7	409.	499.	8.3	8.1	11.0	8.1
81-03-10	1715	3	1.5	17.6	420.	513.	8.5	8.5	34.0	29.0
81-04-08	1030	3	2.5	18.1	479.	575.	8.5	8.5	10.0	10.0
81-05-12	1355	3	8.0	19.9 61R	503.	534. 41R	8.6	8.5 01R	35.0	20.0 73R
81-06-02	1150	3	14.0	19.2	499.	493.	8.6	8.5	38.0	18.0
81-07-02	1100	3	16.0	21.8	--	468.	8.6	8.6	9.0	3.8
81-08-18	1200	3	19.5	23.6	--	576.	8.5	8.6	28.0	17.0
81-09-23	0815	3	4.0	22.6	810.	859.	8.5	8.4	--	15.0
81-10-20	1230	3	4.0	16.6	708.	701.	8.3	8.4	--	7.2
81-11-17	1200	3	0.0	23.2	726.	629.	8.8	8.3	--	3.3
81-12-16	1215	3	0.0	19.2	841.	762.	8.4	8.1	--	5.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-23	1125	3	5.	--	4.	--	--	13.	10.	--
80-02-20	1150	3	20.	--	23.	--	--	17.	12.	--
80-03-20	1140	3	60.	--	8.	--	--	3.	L2.	--
80-04-16	1115	3	70.	--	1095.	--	.021	--	63.	--
80-05-14	0800	3	20.	--	10.	--	L.001	--	16.	--
80-06-11	0800	3	30.	--	19.	--	L.001	--	93.	--
80-07-16	0800	3	20.	--	3.	--	L.001	--	224.	--
80-08-06	1245	3	10.	--	2.	--	.004	--	--	--
80-09-16	1245	3	60.	--	18.	--	.003	--	G80.	--
80-10-21	1300	3	30.	--	11.	--	L.001	26.	12.	--
80-11-25	1330	3	30.	--	11.	--	L.001	13.	13.	--
80-12-09	1330	3	40.	--	5.	--	L.001	--	38.	--
81-01-20	1345	3	5.	--	7.	--	L.001	21.	19.	--
81-02-17	1400	3	50.	--	15.	--	.002	--	56.	--
81-03-10	1715	3	40.	--	69.	--	.006	--	38.	--
81-04-08	1030	3	--	20.	13.	--	.002	L2.	L2.	--
81-05-12	1355	3	--	30. 21R	27. 01R	--	L.001 17T	17. 02U	9. 12U	--
81-06-02	1150	3	--	20.	31.	--	.004	19.	9.	--
81-07-02	1100	3	--	10.	9.	--	.001	--	--	--
81-08-18	1200	3	--	30.	17.	--	.003	--	G80.	--
81-09-23	0815	3	--	30.	12.	--	.002	--	--	--
81-10-20	1230	3	--	20.	10.	--	.001	--	86.	--
81-11-17	1200	3	--	20.	5.	--	.001	11.	1.	--
81-12-16	1215	3	--	20.	10.	--	.001	8.	6.	--

STATION - 00AL11AA0002 LAT. 49D 5M 22S LONG. 112D 24M 8S
MILK RIVER NEAR WESTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-23	1125	3	10.4	0.	0.0	488.	400.0 06L	96.50	60.0	488.0
80-02-20	1150	3	4.7	0.	0.0	304.	249.0 06L	81.10	47.0	396.0
80-03-20	1140	3	9.1	0.	0.0	200.	164.0 06L	42.00	19.2	183.9
80-04-16	1115	3	10.6	0.	0.0	195.	160.0	29.30	10.3	115.6
80-05-14	0900	3	9.4	7.	5.8	250.	217.0	49.40	22.2	214.8
80-06-11	0900	3	8.0	9.	7.5	238.	210.0	44.50	21.8	200.9
80-07-16	0800	3	9.5	5.	4.0	204.	175.0	28.70	23.4	168.0
80-08-06	1245	3	9.2	14.	12.0	207.	194.0	34.40	27.7	199.9
80-09-16	1245	3	10.4	4.	3.4	205.	175.0	31.40	27.3	190.8
80-10-21	1300	3	10.8	4.	2.9	254.	214.0	38.60	27.7	210.4
80-11-25	1330	3	12.8	0.	0.0	352.	289.0	57.20	36.7	293.9
80-12-09	1330	3	7.5	0.	0.0	464.	381.0	54.70	43.4	315.3
81-01-20	1345	3	12.0	0.	0.0	310.	254.0	46.50	29.5	237.6
81-02-17	1400	3	11.4	0.	0.0	206.	169.0	41.10	18.7	179.6
81-03-10	1715	3	12.6	9.	7.8	220.	196.0	39.50	20.5	183.0
81-04-08	1030	3	13.2	0.	0.0	283.	232.0	43.00	25.0	210.3
81-05-12	1355	3	10.5	7.	6.2 51R	277.	240.0 01R	51.20 03R	24.5 02R	228.7
81-06-02	1150	3	8.8	7.	6.0	261.	226.0	52.20	22.7	223.8
81-07-02	1100	3	9.0	6.	5.0	224.	194.0	35.00	24.6	188.7
81-08-18	1200	3	8.5	4.	3.5	201.	172.0	29.80	27.0	185.6
81-09-23	0815	3	9.4	0.	.2	258.	212.0	39.00	36.2	246.4
81-10-20	1230	3	11.6	0.	.2	274.	225.0	44.80	32.2	244.4
81-11-17	1200	3	12.2	0.	0.0	274.	225.0	44.20	30.3	235.1
81-12-16	1215	3	13.1	0.	0.0	390.	320.0	53.70	37.2	287.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-23	1125	3	822.	116.0	3.2	13.0	.14	286.	7.6	--
80-02-20	1150	3	528.	78.0	2.9	7.7	L.05	153.	8.4	--
80-03-20	1140	3	276.	38.0	4.4	4.0	.11	62.	8.4	--
80-04-16	1115	3	179.	13.0	3.4	1.8	.12	16.	8.7	--
80-05-14	0900	3	280.	28.0	1.9	2.4	.11	42.	3.7	--
80-06-11	0800	3	260.	26.0	1.5	1.8	.12	34.	4.8	--
80-07-16	0900	3	305.	53.0	2.0	3.5	.15	87.	2.0	--
80-08-06	1245	3	392.	60.0	3.0	6.0	.18	142.	2.0	--
80-09-16	1245	3	379.	65.0	2.2	5.9	.14	140.	2.0	--
80-10-21	1300	3	311.	34.0	1.6	3.6	.15	71.	6.3	--
80-11-25	1330	3	458.	56.0	2.0	5.5	.12	119.	7.9	--
80-12-09	1330	3	521.	62.0	2.4	5.9	.14	113.	11.0	--
81-01-20	1345	3	349.	33.0	1.8	3.8	.13	75.	6.9	--
81-02-17	1400	3	267.	30.0	3.1	3.5	.10	62.	6.8	--
81-03-10	1715	3	270.	30.0	1.7	2.8	.15	54.	4.1	--
81-04-08	1030	3	306.	39.0	1.8	2.6	L.05	52.	3.4	--
81-05-12	1355	3	311.	35.0 03R	1.6 03R	1.9 06R	L.05 05R	46. 06R	7.2 05R	--
81-06-02	1150	3	273.	20.0	1.2	1.8	.14	31.	8.7	--
81-07-02	1100	3	255.	30.0	1.2	2.3	.14	43.	2.4	--
81-08-18	1200	3	349.	60.0	2.5	5.4	.25	118.	3.0	--
81-09-23	0815	3	526.	95.0	3.9	12.0	.17	210.	2.2	--
81-10-20	1230	3	433.	64.0	2.2	6.4	.15	145.	3.0	--
81-11-17	1200	3	390.	52.0	1.9	5.3	.09	118.	3.0	--
81-12-16	1215	3	464.	50.0	2.2	5.6	.17	114.	9.2	--

STATION - 00AL11AA0002
MILK RIVER NEAR WESTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA
LAT. 49D 5M 22S LONG. 112D 24M 6S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
80-01-23	1125	3	L.003	L.003 03L	Q0.000	1.30 10L	--	1.70	.03	1.73
80-02-20	1150	3	.003	L.003 03L	Q0.000	.72 10L	--	.98	.04	1.02
80-03-20	1140	3	.038	.034 03L	.004	.19 10L	--	.71	.07	.78
80-04-16	1115	3	.800	.046	.754	L.01	.57	.53	2.10	2.63
80-05-14	0900	3	.016	.006	.010	L.01	.23	.23	.08	.31
80-06-11	0900	3	.026	.008	.018	L.01	.26	.24	.08	.32
80-07-16	0900	3	.007	.005	.002	L.01	--	.23	L.01	Q.24
80-08-06	1245	3	.021	L.003	Q.018	.02	.32	.32	.06	.38
80-09-16	1245	3	.024	L.003	Q.021	L.01	.27	.28	.12	.40
80-10-21	1300	3	.003	L.003	Q0.000	L.01	.19	.22	.04	.26
80-11-25	1330	3	.008	.003	.005	.52	.74	.72	.08	.80
80-12-09	1330	3	.004	.003	.001	.44	.73	.73	L.01	Q.74
81-01-20	1345	3	L.003	L.003	Q0.000	.16	.34	.34	.07	.41
81-02-17	1400	3	.063	.020	.043	.25	.67	.67	.17	.84
81-03-10	1715	3	.032	.009	.023	.05	.21	.27	.18	.45
81-04-08	1030	3	.045	L.003	Q.042	L.01	.25	.27	L.01	Q.28
81-05-12	1355	3	.029 06R	.004 03V	.025	L.01 10V	--	.34 51R	.11 02R	.45
81-06-02	1150	3	.026	.003	.023	L.01	.29	.30	.11	.41
81-07-02	1100	3	.010	.010	0.000	L.01	.22	.22	.04	.26
81-08-18	1200	3	.027	.004	.023	L.01	.37	.37	.13	.50
81-09-23	0815	3	.029	.006	.023	.04	.51	.47	.12	.59
81-10-20	1230	3	.009	.003	.006	.31	.51	.57	.07	.64
81-11-17	1200	3	.019	L.003	Q.016	.41	1.00	--	L.01	--
81-12-16	1215	3	.004	.003	.001	.54	.72	.72	L.01	Q.73

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-23	1125	3	--	--	92.0	6.0	.10	6.1	--	--
80-02-20	1150	3	--	--	69.0	4.0	.16	4.2	--	--
80-03-20	1140	3	--	--	53.0	10.0	.28	10.3	--	--
80-04-16	1115	3	--	--	--	11.0	--	--	--	--
	1115	3	--	--	--	11.0 04D	--	--	--	--
80-05-14	0900	3	--	--	--	4.0 04D	--	--	--	--
80-06-11	0800	3	--	--	--	5.0 04D	.53	5.5	--	--
80-07-16	0800	3	--	--	--	4.0 04D	.32	4.3	--	--
80-08-06	1245	3	--	--	--	5.0 04D	.43	5.4	--	--
80-09-16	1245	3	--	--	--	4.0 04D	.75	4.8	--	--
80-10-21	1300	3	--	--	--	3.0 04D	.51	3.5	--	--
80-11-25	1330	3	--	--	--	4.0 04D	.31	4.3	--	--
80-12-09	1330	3	--	--	--	5.0 04D	.31	5.3	--	--
81-01-20	1345	3	--	--	--	4.0 04D	.28	4.3	--	--
81-02-17	1400	3	--	--	--	8.0 04D	.95	9.0	--	--
81-03-10	1715	3	--	--	--	3.0 04D	1.70	4.7	--	--
81-04-08	1030	3	L.1	--	--	4.8	.52	5.3	--	--
81-05-12	1355	3	L.1 06W	--	--	6.1 04R	.83 02R	6.9	--	--
81-06-02	1150	3	L.1	--	--	5.7	.90	6.6	--	--
81-07-02	1100	3	L.1	--	--	4.9	.23	5.1	--	--
81-08-18	1200	3	L.1	--	--	5.5	.63	6.1	--	--
81-09-23	0815	3	L.1	--	--	5.5	.77	6.3	--	--
81-10-20	1230	3	L.1	--	--	3.9	.45	4.4	--	--
81-11-17	1200	3	L.1	--	--	4.0	7.20	11.2	--	--
81-12-16	1215	3	L.1	--	--	4.8	.24	5.0	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0002 LAT. 49D 5M 22S LONG. 112D 24M 8S
MILK RIVER NEAR WESTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-23	1125	3	L.02	L.0005 04L	.0025 02L	--	--	--	--	L.02
80-02-20	1150	3	.13	L.0005 04L	.0010 02L	--	--	--	--	.70
80-03-06	1400	3	--	--	--	--	--	--	--	L.02
	1402	3	--	--	--	--	--	--	--	L.02
	1404	3	--	--	--	--	--	--	--	L.02
	1406	3	--	--	--	--	--	--	--	.03
	1408	3	--	--	--	--	--	--	--	.02
	1410	3	--	--	--	--	--	--	--	.02
	1416	3	--	--	--	--	--	--	--	.02
	1418	3	--	--	--	--	--	--	--	L.02
	1420	3	--	--	--	--	--	--	--	L.02
80-03-20	1140	3	.11	.0008 04L	.0005 02L	--	--	--	--	.03
80-04-16	1115	3	.14	.0010	L.0005	--	.02	--	.20	.10
80-05-14	0900	3	.06	.0010	L.0005	--	L.01	--	L.04	L.02
80-06-11	0900	3	.07	.0009	L.0005	--	L.01	--	.04	.03
80-07-16	0900	3	.06	.0011	L.0005	--	L.01	--	L.04	.06
80-08-05	1245	3	.07	.0010	L.0005	--	.01	--	L.04	L.02
80-09-16	1245	3	.08	.0010	L.0005	--	L.01	--	L.04	L.02
80-10-21	1300	3	.07	.0010	.0006	--	L.01	--	L.04	L.02
80-11-25	1330	3	.11	.0010	L.0005	--	L.01	--	L.04	L.02
80-12-09	1330	3	.14	.0008	.0008	--	.01	--	L.04	L.02
81-01-20	1345	3	.08	.0006	L.0005	--	L.01	--	L.04	L.02
81-02-17	1400	3	.13	L.0005	L.0005	--	L.01	--	.06	L.02
81-03-10	1715	3	.04	.0011	L.0005	--	L.01	--	L.04	L.02
81-04-08	1030	3	.06	.0007	L.0005	--	L.01	--	.04	.07
81-05-12	1355	3	.10 05R	.0010 04V	.0006 02V	--	L.01 04T	--	L.04 04T	L.02 11W
81-06-02	1150	3	.08	.0009	L.0005	--	L.01	--	L.04	L.02
81-07-02	1100	3	.04	.0011	L.0005	--	.01	--	L.04	L.02
81-08-18	1200	3	.08	.0014	.0005	--	L.01	--	L.04	L.02
81-09-23	0815	3	.09 05D	.0007	L.0005	--	L.01	--	L.04	L.02
81-10-20	1230	3	.10 05D	.0007	.0008	--	L.01	--	L.04	L.02
81-11-17	1200	3	.09 05D	.0006	.0010	--	L.01	--	L.04	L.02
81-12-16	1215	3	.11 05D	.0010	.0012	--	L.01	--	L.04	L.02

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0003
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA LAT. 49D 7M 27S LONG. 110D 53M 38S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
80-01-22	1140	3	.5	21.1	1350.	1460.	7.7	7.8	1.5	1.3
80-03-19	1200	3	.5	18.7	430.	446.	8.0	8.2	15.0	17.0
80-04-15	1120	3	10.0	23.4	380.	444.	8.5	8.2	174.0	--
80-05-13	0850	3	11.5	17./ 61R	270.	305. 41R	8.4	8.3 01R	96.0	53.0 73R
80-06-10	0910	3	18.5	18.3	290.	332.	--	8.1	150.0	120.0
80-07-15	0915	3	16.0	20.6	200.	218.	8.3	8.2	98.0	58.0
80-08-06	0930	3	15.0	20.6	175.	199.	8.3	8.1	92.0	86.0
80-09-16	0915	3	8.0	21.2	190.	232.	8.3	8.2	44.0	30.0
80-10-21	0940	3	5.0	19.6	675.	733.	8.6	8.5	5.0	3.8
80-11-25	1015	3	.5	20.1	870.	944.	8.5	8.3	6.0	4.5
80-12-09	1045	3	.5	22.1	920.	1095.	8.1	8.0	3.0	2.1
81-01-20	1100	3	0.0	16.6	762.	868.	8.4	8.2	6.0	4.5
81-02-17	1030	3	.5	17.8	307.	400.	8.2	8.0	--	180.0
81-03-10	1445	3	5.0	18.6	559.	625.	8.5	8.5	36.0	29.0
81-04-08	0730	3	3.5	18.0	292.	357.	8.2	8.2	120.0	78.0
81-05-12	0855	3	9.0	18.7 61R	359.	407. 41R	8.3	8.2 01R	G200.0	125.0 ´3R
81-06-02	0845	3	9.5	18.7	361.	283.	8.4	8.2	G200.0	110.0
81-07-02	0745	3	16.0	22.1	--	270.	8.3	8.3	155.0	45.0
81-08-18	0830	3	18.0	23.9	191.	215.	8.2	8.3	112.0	53.0
81-09-22	0845	3	8.0	22.4	187.	210.	8.1	8.1	--	44.0
81-10-20	0845	3	4.5	17.0	688.	671.	8.6	8.3	--	5.5
81-11-17	0830	3	1.0	22.9	765.	656.	8.6	8.4	--	3.0
81-12-16	0830	3	0.0	18.6	1024.	943.	8.3	8.1	--	2.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02011L COLOUR APPARENT REL. UNITS	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL
80-01-22	1140	3	5.	--	7.	--	--	L2.	L2.	--
80-03-19	1200	3	80.	--	45.	--	--	6.	4.	--
80-04-15	1120	3	20	--	282.	--	L.001	20.	L10.	--
80-05-13	0850	3	60. 11R	--	149. 01R	--	.004 17T	--	17. 12U	--
80-06-10	0910	3	160	--	281	--	.007	--	73.	--
80-07-15	0915	3	110	--	199	--	.003	L2.	L2.	--
80-08-06	0930	3	80.	--	186.	--	L.001	--	32	--
80-09-16	0915	3	60.	--	15.	--	.005	--	32.	--
80-10-21	0940	3	20	--	8.	--	.001	--	24.	--
80-11-25	1015	3	30.	--	12	--	L.001	3.	2.	--
80-12-09	1045	3	30.	--	3.	--	L.001	11.	6.	--
81-01-20	1100	3	5.	--	8.	--	L.001	L2.	L2.	--
81-02-17	1030	3	300.	--	305.	--	L.001	--	--	--
81-03-10	1445	3	40	--	50.	--	L.001	--	2.	--
81-04-08	0730	3	--	20.	180.	--	.004	--	--	--
81-05-12	0855	3	--	10. 21R	448. 01R	--	L.001 17T	--	--	--
81-06-02	0845	3	--	10.	274.	--	.010	--	--	--
81-07-02	0745	3	--	10.	203.	--	.009	--	--	--
81-08-18	0830	3	--	30.	129.	--	.005	--	50.	--
81-09-22	0845	3	--	20.	134.	--	.004	--	200.	--
81-10-20	0845	3	--	10.	7.	--	.001	22.	15.	--
81-11-17	0830	3	--	20.	8.	--	L.001	4.	2.	--
81-12-16	0830	3	--	10.	4.	--	.001	106.	12.	--

STATION - 00AL11AA0003 LAT. 49D 7M 27S LONG. 110D 53M 38S
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08101M OXYGEN DISSOLVED DO O2 MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
80-01-22	1140	3	6.1	0.	0.0	471.	386.0 06L	74.20	55.0	411.7
80-03-19	1200	3	11.4	0.	0.0	139.	114.0 06L	30.00	15.0	136.7
80-04-15	1120	3	9.3	0.	0.0	183.	150.0	33.30	15.7	147.8
80-05-13	0850	3	9.3	0.	0.0 51R	151.	124.0 01R	30.00 03R	12.5 02R	126.4
80-06-10	0810	3	7.6	0.	0.0	155.	127.0	29.90	13.0	128.2
80-07-15	0815	3	8.8	0.	0.0	111.	91.0	22.70	8.8	92.9
80-08-06	0830	3	5.5	0.	0.0	99.	81.0	22.90	8.8	93.4
80-09-16	0915	3	10.1	0.	0.0	113.	93.0	23.40	9.8	98.8
80-10-21	0840	3	11.0	4.	3.5	277.	234.0	39.70	26.5	208.2
80-11-25	1015	3	13.0	0.	0.0	379.	311.0	51.10	38.1	284.5
80-12-09	1045	3	7.9	0.	0.0	452.	371.0	38.80	42.2	270.6
81-01-20	1100	3	11.8	0.	0.0	389.	319.0	48.70	29.0	241.0
81-02-17	1030	3	11.4	0.	0.0	141.	116.0	25.00	10.7	106.5
81-03-10	1445	3	12.1	9.	7.6	258.	227.0	44.20	22.5	203.0
81-04-08	0730	3	12.1	0.	0.0	160.	131.0	31.00	15.0	139.2
81-05-12	0855	3	10.3	0.	0.0 51R	173.	142.0 01R	35.80 03R	16.2 02R	156.1
81-06-02	0845	3	8.4	0.	0.0	146.	120.0	--	--	--
81-07-02	0745	3	8.4	0.	0.0	137.	112.0	25.80	11.6	112.2
81-08-18	0830	3	7.8	0.	0.0	112.	92.0	22.60	8.6	92.7
81-09-22	0845	3	10.0	0.	0.0	110.	90.0	22.90	8.4	91.8
81-10-20	0845	3	11.1	0.	0.6	262.	215.0	43.00	24.4	207.8
81-11-17	0830	3	11.4	0.	.2	286.	235.0	38.00	27.2	206.9
81-12-16	0830	3	11.7	0.	0.0	439.	360.0	46.20	42.0	288.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	16104P SULFIDE DISSOLVED S MG/L
80-01-22	1140	3	849.	167.0	2.8	11.0	.14	298.	9.7	--
80-03-19	1200	3	246.	39.0	6.6	4.0	.13	77.	6.3	--
80-04-15	1120	3	236.	29.0	1.9	2.4	.09	58.	5.2	--
80-05-13	0850	3	161.	12.0 03R	1.2 03R	1.0 06R	.07 05R	26. 06R	3.9 05R	--
80-06-10	0810	3	165.	15.0	1.4	1.0	.09	24.	4.5	--
80-07-15	0815	3	160.	7.0	.8	.6	.06	62.	3.0	--
80-08-06	0830	3	101.	5.2	.6	.5	.06	11.	3.0	--
80-09-16	0915	3	117.	7.9	.5	.7	.08	16.	2.5	--
80-10-21	0840	3	446.	85.0	2.0	5.5	.16	144.	2.7	--
80-11-25	1015	3	564.	98.0	2.7	7.1	.13	178.	4.4	--
80-12-09	1045	3	620.	113.0	3.0	7.6	.12	186.	6.6	--
81-01-20	1100	3	505.	84.0	2.9	5.5	.15	136.	7.6	--
81-02-17	1030	3	219.	38.0	3.1	3.1	.09	64.	5.1	--
81-03-10	1445	3	339.	42.0	3.4	4.1	.17	81.	5.9	--
81-04-08	0730	3	185.	20.0	1.2	1.2	L.05	34.	4.1	--
81-05-12	0855	3	224.	26.0 03R	1.4 03R	1.7 06R	L.05 05R	53. 06R	4.6 05R	--
81-06-02	0845	3	--	--	--	--	.11	--	--	--
81-07-02	0745	3	140.	10.0	.9	.9	.07	20.	3.3	--
81-08-18	0830	3	109.	6.8	.6	.6	.05	11.	2.9	--
81-09-22	0845	3	105.	5.5	.4	.4	.08	11.	2.2	--
81-10-20	0845	3	407.	66.0	1.7	5.4	.13	135.	2.8	--
81-11-17	0830	3	400.	65.0	2.0	4.7	.09	120.	2.4	--
81-12-16	0830	3	583.	92.0	2.8	6.8	.17	170.	7.0	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0003
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA — LAT. 49D 7M 27S LONG. 110D 53M 39S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07903L NITROGEN TOTAL (CALCD.) N MG/L
80-01-22	1140	3	.005	.005 03L	0.000	.66 10L	--	.92	.05	.97
80-03-18	1200	3	.120	.071 03L	.040	.38 10L	--	1.10	.16	1.26
80-04-15	1120	3	.220	.017	.203	.21	.40	.39	.52	.91
80-05-13	0850	3	.100 06R	.005 03V	.095	.04 10V	.12 51V	.15 51R	.30 02R	.45
80-06-10	0810	3	.230	.005	.225	.05	.18	.20	.46	.66
80-07-15	0815	3	.140	.003	.137	.04	.09	.13	.27	.40
80-08-05	0830	3	.130	.004	.126	.05	.10	.12	.32	.44
80-09-16	0815	3	.051	L.003	0.048	.02	.10	.09	.30	.39
80-10-21	0840	3	L.003	L.003	00.000	L.01	.15	.17	.01	.18
80-11-25	1015	3	.380	.003	.377	.19	.38	.48	.10	.58
80-12-09	1045	3	.004	.004	0.000	.45	.88	.87	L.01	0.88
81-01-20	1100	3	.004	.004	0.000	.33	.50	.49	.07	.56
81-02-17	1030	3	.350	.048	.302	.39	.84	.68	.31	.99
81-03-10	1445	3	.035	.003	.032	.30	.52	--	.16	--
81-04-08	0730	3	.140	L.003	0.137	.06	.20	.20	.47	.87
81-05-12	0855	3	.260 06R	.006 03V	.254	.09 10V	.26 51V	.27 51R	.58 02R	.85
81-06-02	0845	3	.200	.006	.194	.03	.20	.19	.39	.58
81-07-02	0745	3	.170	--	--	.02	.10	.10	.25	.35
81-08-18	0830	3	.006	--	--	.03	.11	.11	.23	.34
81-09-22	0845	3	.130	.003	.127	.02	.07	.09	.19	.28
81-10-20	0845	3	.013	.003	.010	.16	.28	.28	.04	.32
81-11-17	0830	3	.015	.005	.010	.25	.39	.41	L.01	0.42
81-12-16	0830	3	.004	.003	.001	.76	.85	.91	L.01	0.92

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06152L CARBON DISSOLVED INORGANIC C MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	03301P LITHIUM EXTRBLE. LI MG/L	13302P ALUMINUM EXTRBLE. AL MG/L
80-01-22	1140	3	--	--	95.0	5.0	.21	5.2	--	--
80-03-18	1200	3	--	--	27.0	11.0	1.10	12.1	--	--
80-04-15	1120	3	--	--	--	3.0	--	--	--	--
	1120	3	--	--	--	3.0 04D	--	--	--	--
80-05-13	0850	3	--	--	--	2.0 04V	--	--	--	--
80-06-10	0810	3	--	--	--	3.0 04D	4.00	7.0	--	--
80-07-15	0815	3	--	--	--	1.0 04D	3.80	4.8	--	--
80-08-05	0830	3	--	--	--	1.0 04D	3.10	4.1	--	--
80-09-16	0815	3	--	--	--	1.0 04D	1.70	2.7	--	--
80-10-21	0840	3	--	--	--	2.0 04D	.25	2.3	--	--
80-11-25	1015	3	--	--	--	4.0 04D	.32	4.3	--	--
80-12-09	1045	3	--	--	--	4.0 04D	.15	4.2	--	--
81-01-20	1100	3	--	--	--	4.0 04D	.24	4.2	--	--
81-02-17	1030	3	--	--	--	11.0 04D	2.50	13.5	--	--
81-03-10	1445	3	--	--	--	4.0 04D	1.30	5.3	--	--
81-04-08	0730	3	L.1	--	--	2.7	4.50	7.2	--	--
81-05-12	0855	3	L.1 06M	--	--	3.2 04R	7.70 02R	10.9	--	--
81-06-02	0845	3	L.1	--	--	3.4	5.10	8.5	--	--
81-07-02	0745	3	L.1	--	--	1.9	2.60	4.5	--	--
81-08-18	0830	3	L.1	--	--	.7	1.80	2.5	--	--
81-09-22	0845	3	L.1	--	--	1.2	1.90	3.1	--	--
81-10-20	0845	3	L.1	--	--	2.7	.28	3.0	--	--
81-11-17	0830	3	L.1	--	--	3.2	.20	3.4	--	--
81-12-16	0830	3	L.1	--	--	4.2	.09	4.3	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0003 LAT. 49D 7M 27S LONG. 110D 53M 38S
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L
80-01-22	1140	3	.19	L.0005 04L	.0009 02L	.03	--	.20	--	L.02
80-03-19	1200	3	.18	.0008 04L	.0005 02L	.03	--	.78	--	.02
80-04-15	1120	3	.08	L.0005	L.0005	--	L.01	--	L.04	.03
80-05-13	0850	3	.04 05R	L.0005 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	L.02 11H
80-06-10	0810	3	.07	.0005	L.0005	--	L.01	--	L.04	.03
80-07-15	0815	3	.04	.0005	.0006	--	L.01	--	L.04	.13
80-08-06	0830	3	.03	L.0005	L.0005	--	L.01	--	L.04	.03
80-09-16	0815	3	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
80-10-21	0840	3	.08	L.0005	L.0005	--	L.01	--	L.04	L.02
80-11-25	1015	3	.13	.0005	L.0005	--	.01	--	L.04	L.02
80-12-08	1045	3	.17	L.0005	L.0005	--	.01	--	L.04	L.02
81-01-20	1100	3	.14	.0005	L.0005	--	L.01	--	L.04	.06
81-02-17	1030	3	.17	.0005	L.0005	--	L.01	--	.09	L.02
81-03-10	1445	3	.11	.0008	L.0005	--	L.01	--	L.04	L.02
81-04-08	0730	3	.04	L.0005	L.0005	--	L.01	--	L.04	L.02
81-05-12	0855	3	.07 05R	.0007 04V	L.0005 02V	--	L.01 04T	--	L.04 04T	.02 11H
81-06-02	0845	3	.07	.0009	L.0005	--	L.01	--	L.04	.02
81-07-02	0745	3	.03	.0007	L.0005	--	.01	--	L.04	L.02
81-08-18	0830	3	.03	L.0005	L.0005	--	L.01	--	L.04	L.02
81-09-22	0845	3	.02 05D	L.0005	L.0005	--	L.01	--	L.04	L.02
81-10-20	0845	3	.09 05D	.0005	L.0005	--	L.01	--	L.04	.02
81-11-17	0830	3	.10 05D	L.0005	L.0005	--	L.01	--	L.04	.03
81-12-16	0830	3	.17 05D	.0007	.0008	--	.01	--	L.04	L.02

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	23302P VANADIUM EXTRBLE. V MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	24302P CHROMIUM EXTRBLE. CR MG/L	27302P COBALT EXTRBLE. CO MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28302P NICKEL EXTRBLE. NI MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	47301P SILVER EXTRBLE. AG MG/L
80-01-22	1140	3	L.001	--	--	L.002	--	--	--	--
80-03-19	1200	3	L.001	--	--	L.002	--	--	--	--
80-04-15	1120	3	--	.008	--	--	L.002	--	.014	--
80-05-13	0850	3	--	.002 20H	--	--	.002 20H	--	.005 20H	--
80-06-10	0810	3	--	.013	--	--	.003	--	.013	--
80-07-15	0815	3	--	.009	--	--	.002	--	.008	--
80-08-06	0830	3	--	.009	--	--	L.002	--	.002	--
80-09-16	0815	3	--	.004	--	--	L.002	--	.002	--
80-10-21	0840	3	--	L.001	--	--	L.002	--	.003	--
80-11-25	1015	3	--	.002	--	--	L.002	--	.004	--
80-12-08	1045	3	--	L.001	--	--	L.002	--	.002	--
81-01-20	1100	3	--	.001	--	--	L.002	--	.006	--
81-02-17	1030	3	--	.023	--	--	.005	--	.014	--
81-03-10	1445	3	--	.002	--	--	L.002	--	L.002	--
81-04-08	0730	3	--	L.001	--	--	L.002	--	--	--
81-05-12	0855	3	--	.002 20H	--	--	.005 20H	--	--	--
81-06-02	0845	3	--	.003	--	--	.002	--	--	--
81-07-02	0745	3	--	.002	--	--	.002	--	.010	--
81-08-18	0830	3	--	.009	--	--	L.002	--	.005	--
81-09-22	0845	3	--	.007	--	--	L.002	--	L.002	--
81-10-20	0845	3	--	L.001	--	--	L.002	--	L.002	--
81-11-17	0830	3	--	L.001	--	--	L.002	--	L.002	--
81-12-16	0830	3	--	L.001	--	--	L.002	--	.002	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0003
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA LAT. 490 7M 27S LONG. 1100 53M 30S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	29305P COPPER EXTRBLE. CU MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30305P ZINC EXTRBLE. ZN MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	38301P STRONTIUM EXTRBLE. SR MG/L	42301P MOLYBDENUM EXTRBLE. MO MG/L	48302P CADMIUM EXTRBLE. CD MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L
80-01-22	1140	3	.001	--	.002	--	--	--	L.001	--
80-03-19	1200	3	.003	--	.002	--	--	--	L.001	--
80-04-15	1120	3	--	.008	--	.013	--	--	--	L.001
80-05-13	0850	3	--	.004 20M	--	.016 20M	--	--	--	L.001 20M
80-06-10	0810	3	--	.008	--	.028	--	--	--	L.001
80-07-15	0815	3	--	.005	--	.017	--	--	--	L.001
80-08-06	0830	3	--	.004	--	.017	--	--	--	L.001
80-09-16	0815	3	--	.002	--	.018	--	--	--	L.001
80-10-21	0840	3	--	.001	--	.001	--	--	--	L.001
80-11-25	1015	3	--	.001	--	.004	--	--	--	L.001
80-12-08	1045	3	--	L.001	--	.003	--	--	--	L.001
81-01-20	1100	3	--	.002	--	.001	--	--	--	L.001
81-02-17	1030	3	--	.015	--	.035	--	--	--	L.001
81-03-10	1445	3	--	L.001	--	.001	--	--	--	L.001
81-04-08	0730	3	--	L.001	--	--	--	--	--	L.001
81-05-12	0855	3	--	.005 20M	--	--	--	--	--	L.001 20M
81-06-02	0845	3	--	.003	--	.008	--	--	--	L.001
81-07-02	0745	3	--	.002	--	.013	--	--	--	L.001
81-08-18	0820	3	--	.009	--	.012	--	--	--	L.001
81-09-22	0845	3	--	.004	--	.014	--	--	--	L.001
81-10-20	0845	3	--	.002	--	.008	--	--	--	L.001
81-11-17	0830	3	--	L.001	--	.001	--	--	--	L.001
81-12-16	0830	3	--	.001	--	.001	--	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	56301P BARIUM EXTRBLE. BA MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82302P LEAD EXTRBLE. PB MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L	06604P CYANIDE DISSOLVED CN MG/L	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C28 UG/L	06510P AROMATIC HYDROC. UG/L
80-01-22	1140	3	.24	--	L.004	--	.002	.001	--	--
80-03-19	1200	3	.07	--	L.004	--	.005	.003	--	--
80-04-15	1120	3	--	.20	--	L.004	.002	L.001	--	--
80-05-13	0850	3	--	.10 20M	--	L.004 20M	.002 04M	.001 35M	--	--
80-06-10	0810	3	--	.18	--	.006	.003	--	--	--
80-07-15	0815	3	--	.13	--	L.004	.001	L.001	--	--
80-08-06	0830	3	--	.09	--	.004	.001	.003	--	--
80-09-15	0815	3	--	.08	--	L.004	.002	L.001	--	--
80-10-21	0840	3	--	.06	--	L.004	L.001	L.001	--	--
80-11-25	1015	3	--	.09	--	L.004	.006	L.001	--	--
80-12-08	1045	3	--	L.05	--	L.004	.008	L.001	--	--
81-01-20	1100	3	--	.05	--	L.004	.006	L.001	--	--
81-02-17	1030	3	--	.18	--	.006	.025	.003	--	--
81-03-10	1445	3	--	L.05	--	L.004	.004	L.001	--	--
81-04-08	0730	3	--	.13	--	L.004	.003	L.001	--	--
81-05-12	0855	3	--	.16 20M	--	.004 20M	.004 04M	L.001 35M	--	--
81-06-02	0845	3	--	.07	--	L.004	.003	.001	--	--
81-07-02	0745	3	--	.10	--	.004	.002	L.001	--	--
81-08-18	0830	3	--	.16	--	L.004	.003	L.001	--	--
81-09-22	0845	3	--	.15	--	L.004	.002	L.001	--	--
81-10-20	0845	3	--	.19	--	L.004	L.001	L.001	--	--
81-11-17	0820	3	--	.21	--	L.004	.001	.001	--	--
81-12-16	0830	3	--	.29	--	L.004	.005	L.001	--	--

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0003 LAT. 49D 7M 27S LONG. 110D 53M 38S
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	08521P OIL AND GREASE MG/L	10701P SURFACT. N-ALKYL SULPHNTS. LAS MG/L	18130L ALDRIN UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18010L P,P-TDE UG/L	18020L P,P-DDE UG/L
80-01-22	1140	3	--	--	L.001	L.001	.001	L.001	L.002	L.001
80-03-19	1200	3	--	--	L.001	L.001	.010	.001	L.002	L.001
80-04-15	1120	3	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-05-13	0850	3	--	--	L.001	L.001	.003	.001	L.002	L.001
80-06-10	0810	3	--	--	L.001	L.001	.003	L.001	L.002	L.001
80-07-15	0815	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
80-08-06	0830	3	--	--	L.001	L.001	.006	L.001	L.002	L.001
80-09-16	0815	3	--	--	L.001	L.001	.008	L.001	L.002	L.001
80-10-21	0840	3	--	--	L.001	L.001	.006	L.001	L.002	L.001
80-11-25	1015	3	--	--	L.001	L.001	L.001	L.001	L.002	L.001
80-12-09	1045	3	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-01-20	1100	3	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-02-17	1030	3	--	--	L.001	L.001	.005	L.001	L.002	L.001
81-03-10	1445	3	--	--	L.001	L.001	.001	L.001	L.002	L.001
81-04-08	0730	3	--	--	L.001	L.001	.004	L.001	L.002	L.001
81-05-12	0855	3	--	--	L.001 30R	L.001 11R	.002 75R	.001 70R	L.002 10R	L.001 20R
81-06-02	0845	3	--	--	L.001	L.001	L.001	L.001	L.002	L.001
81-07-02	0745	3	--	--	L.001	L.001	.003	L.001	L.002	L.001
81-08-18	0830	3	--	--	L.001	L.001	.002	L.001	L.002	L.001
81-09-22	0845	3	--	--	L.001	L.001	.008	L.001	L.002	L.001
81-10-20	0845	3	--	--	L.001	L.001	.007	.001	L.002	L.001
81-11-17	0830	3	--	--	L.001	L.001	.006	L.001	L.002	L.001
81-12-16	0830	3	--	--	L.001	L.001	.003	L.001	L.002	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L	18045L HEPTACHLOR EPOXIDE UG/L
80-01-22	1140	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-03-19	1200	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-04-15	1120	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-05-13	0850	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-06-10	0810	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-07-15	0815	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-08-06	0830	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-09-16	0815	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-10-21	0840	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-11-25	1015	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
80-12-09	1045	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-01-20	1100	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-02-17	1030	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-03-10	1445	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-04-08	0730	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-05-12	0855	3	L.001 05R	L.004 00R	L.01 30R	L.002 40R	L.001 50R	L.003 55R	L.001 40R	L.002 45R
81-06-02	0845	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-07-02	0745	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-08-18	0830	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-09-22	0845	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-10-20	0845	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-11-17	0830	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002
81-12-16	0830	3	L.001	L.004	L.01	L.002	L.001	L.003	L.001	L.002

DETAILED WATER QUALITY DATA 1980-1981
ALBERTA

STATION - 00AL11AA0003
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA   LAT. 49D 7M 27S   LONG. 110D 53M 28S

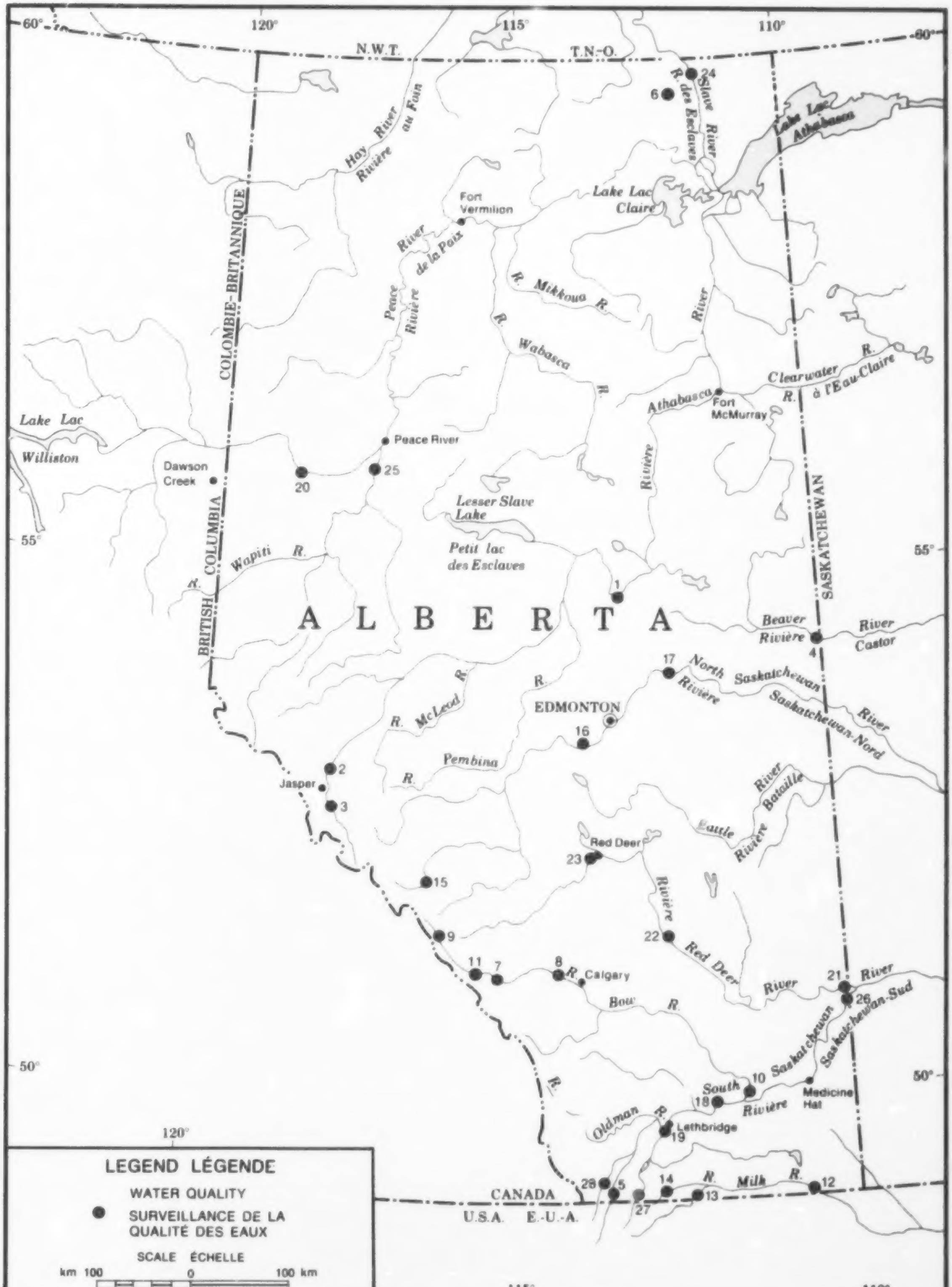
DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L	18555P DICHLORPROP UG/L
80-01-22	1140	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-03-19	1200	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-04-15	1120	3	L.002	L.001	L.003	L.002	L.2	.008	L.009	L.004
80-05-13	0850	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-06-10	0810	3	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
80-07-15	0815	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-08-06	0830	3	L.002	L.001	L.003	L.002	L.2	.004	L.009	L.004
80-09-16	0815	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-10-21	0840	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
80-11-25	1015	3	L.002	L.001	L.003	L.002	--	--	--	--
80-12-08	1045	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-01-20	1100	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-02-17	1030	3	L.002	L.001	L.003	L.002	L.2	.020	L.009	L.004
81-03-10	1445	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-04-08	0730	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-05-12	0855	3	L.002 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W	L.004 55W
81-06-02	0845	3	L.002	L.001	L.003	L.002	L.2	.008	L.009	L.004
81-07-02	0745	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-08-18	0830	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-09-22	0845	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-10-20	0845	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-11-17	0830	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004
81-12-16	0830	3	L.002	L.001	L.003	L.002	L.2	L.004	L.009	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18161L AROCLOR 1248 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCHLOR TOTAL (PCB'S) UG/L
80-01-22	1140	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-03-19	1200	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-04-15	1120	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-05-13	0850	3	L.002	L.004	L.2 01W	--	L.002	L.002	L.005	L.020
80-06-10	0810	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-07-15	0815	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-08-06	0830	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.020
80-09-16	0815	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-10-21	0840	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
80-11-25	1015	3	--	--	L.2	--	L.002	L.002	L.005	L.002
80-12-08	1045	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-01-20	1100	3	L.002	L.004	L.2	--	L.002	L.002	L.005	L.002
81-02-17	1030	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-03-10	1445	3	L.002	L.004	L.2	--	L.002	L.002	L.005	--
81-04-08	0730	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-05-12	0855	3	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	--	L.005 62R	L.002 64R
81-06-02	0845	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-07-02	0745	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-08-18	0830	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-09-22	0845	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-10-20	0845	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-11-17	0830	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002
81-12-16	0830	3	L.002	L.004	L.2	L.002	L.002	--	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT   G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION   G - PLUS GRAND QUE LA LIMITE MESURE

Location/Description	Station number	Lat. °	'	"	Long. °	'	"		
ATHABASCA RIVER AT ATHABASCA, ALBERTA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA	[illegible]	53	2	25	118	5	[illegible]	[illegible]	[illegible]
ATHABASCA RIVER AT HWY 93A, ATHABASCA FALLS, JASPER NATIONAL PARK, ALBERTA	[illegible]	52	39	54	117	52	[illegible]	[illegible]	[illegible]
BEAVER RIVER AT BEAVER CROSSING, ALBERTA	[illegible]	54	21		110	13		[illegible]	[illegible]
BELLY RIVER AT HWY 6, WATERTON LAKES NATIONAL PARK, ALBERTA	[illegible]	49	2	[illegible]	113	41	[illegible]	[illegible]	[illegible]
[illegible] CREEK NEAR FORT SMITH, ALBERTA	[illegible]	59	46	59	111	57	40	[illegible]	[illegible]
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA	[illegible]	51	7	21	115	23	12	[illegible]	7
BOW RIVER AT COCHRANE, ALBERTA	[illegible]	51	10	25	114	29	[illegible]	[illegible]	[illegible]
BOW RIVER AT HIGHWAY 1 ABOVE LAKE LOUISE, ALBERTA	[illegible]	51	25	35	116	12	42	[illegible]	[illegible]
BOW RIVER NEAR [illegible], ALBERTA	[illegible]	50	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] CREEK AT HWY 1 [illegible], BANFF NATIONAL PARK, ALBERTA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] ALBERTA	[illegible]	[illegible]	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] ALBERTA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] ALBERTA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Location Description	Station Number / Station Parameters	Latitude °	'	"	Longitude °	'	"	Page	Map Number
NORTH SASKATCHEWAN RIVER AT PAKAN, ALBERTA	00AL05EC0005	54	0	9	112	23	54	98	17
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA	00AL05AG0001	49	57	40	112	5	5	27	18
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA	00AL05AD0002 [illegible]	49	42	30	112	52	30	3	19
PEACE RIVER AT HWY 2, DUNVEGAN, ALBERTA	00AL07FD0002 [illegible]	55	55	18	118	36	33	126	20
RED DEER RIVER AT BINDLOSS, ALBERTA	00AL05CK0001 [illegible]	50	54	9	110	17	51	79	21
RED DEER RIVER AT DRUMHELLER, ALBERTA	00AL05CE0001 [illegible]	51	28	9	112	42	30	73	22
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA	00AL05CC0004	52	16	3	113	51	48	67	23
SLAVE RIVER AT FITZGERALD, ALBERTA	00AL07NB0001 [illegible]	59	52	9	111	35	9	138	24
SMOKY RIVER AT WATINO, ALBERTA	00AL07GJ0001 [illegible]	55	42	57	117	37	18	132	25
SOUTH SASKATCHEWAN RIVER AT HWY 41, ALBERTA	00AL05AK0001 [illegible]	50	44	15	110	5	45	33	26
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL), ALBERTA	00AL05AE0001 [illegible]	49	0	9	113	18	51	20	27
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA	00AL05AD0005 [illegible]	49	6	51	113	50	21	9	28



WATER QUALITY BRANCH MONITORING STATIONS 1980-1981

STATIONS DE SURVEILLANCE DE LA DIRECTION DE LA QUALITÉ

POOR

QUALITY

ORIGINAL